



EXPERT TA

INSTRUCTOR USER MANUAL

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Logging In

From the Expert TA home website, click on **Log In** in the top right corner of your screen. This will take you to the log in window seen in [Figure 1](#).

The Expert TA uses a two-step login process. On the first screen, enter the username or email address associated with your account and click the **Next** button. If you enter the incorrect username, you will see this message: *"There is no account associated with the username you entered. Please ensure you are entering the full email address that you used to register for Expert TA."*

Figure 1: Login User Name

Welcome to Expert TA!

Log In

User Name:

Next

Trouble Logging in?
Note: Your User Name is the full e-mail address used during registration.
Forgot your password? Request Password Reset Email
 Contact main@theexpertta.com with any questions.

Figure 2: Login Password

Welcome to Expert TA!

Log In

User Name: etademo@instructor.com

Password:

Next

Login in with a different account

Trouble Logging in?
Note: Your User Name is the full e-mail address used during registration.
Forgot your password? Request Password Reset Email
 Contact main@theexpertta.com with any questions.

On the next screen, shown in [Figure 2](#), enter your password and click the **Next** button. This will take you to the main **Class Management** page shown in [Figure 4](#). If you have entered the wrong username or need to log in as a different user, click on the blue words **Log in with a different account**.

If you forget your password, click on the blue words **Request Password Reset Email**. A new screen will appear, see [Figure 3](#), where you will enter your username, and then click on the **Request Reset** button.

To exit from this screen without requesting a new password, use the back arrow key on your browser.

Figure 3: Request Password Reset

Request Password Reset:

User Name:

Request Reset

Note: Enter the username and click the Request Reset button. Once you receive the e-mail use the link to reset/change password.

Class Management

When you first log in to Expert TA you will be taken to the Class Management page (see). At the top of the page, you will see a blue menu with the words **Class Management**, **Instructor**, and **Help**. In Figure 4 below, you will see an example of the **Class Management** screen which can also be called your home screen. As you navigate our system, you can always click on **Class Management** in the blue bar to return to this screen.

Figure 4: Class Management Screen

The screenshot shows the Class Management interface. At the top is a blue navigation bar with 'Class Management | Instructor | Help'. Below this, there are two dropdown menus: 'Classes' (labeled A) and 'Class Menu' (labeled B). The 'Classes' dropdown is currently set to 'Physics Demo'. Below these is a section for 'Additional Class Resources' (labeled C), which contains a table of resources. Below that is the 'Assignments' section (labeled D), which shows a table of assignments. The first assignment, 'Learning Expert TA', is expanded, showing a list of problems. At the bottom is the 'Class News' section (labeled E), which shows a 'New Announcement'.

Name	Description
Expert TA: Physics I Video Series	A comprehensive collection of physics videos, designed for the flipped classroom
Expert TA: Physics II Video Series	A comprehensive collection of physics videos, designed for the flipped classroom
UMD PHYS 107 Lab Materials	PDF's of all lab manuals and additional lab resources for Physics 107 at the University of Maryland.

Assignment	Weight	Publish	Start	Due	End	Min	Template
▼ Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM		Instructor Default

Prob #	Weight	Problems
Prob 1	1	Learning Expert TA 01 (Basic Navigation)
Prob 2	1	Learning Expert TA 02 (Symbolic Answers)
Prob 3	1	Learning ETA 01 (alt)
Prob 4	1	Learning Expert TA FBDs
Prob 5	1	Advanced Essay

Time displayed in (UTC-06:00) Central Time (US & Canada)

Class News
New Announcement Jul 12, 2021 11:51 AM - This is where your news announcements can be viewed. Delete

A: **Classes** – this menu allows you to select the class you want to work on.

B: **Class Menu** – this menu contains many action items needed for creating, editing, and maintaining your class.

C: **Additional Class Resources** – this area contains any additional content, like videos or lab materials, available for the class.

D: **Assignments** – this is where all the assignments for your class are displayed. The expand button (⊞) to the left of the assignment will display all the problems in an assignment, in Figure 4 homework 2 is expanded. Hovering over a problem will display a preview of the problem, see Figure 5.

E: **Class News** – This is where your news announcements will be displayed (see Create News).

Figure 5: Problem Preview

Alg, 3
A quarterback throws a football with an initial velocity v at an angle θ above horizontal. Assume the ball leaves the quarterback's hand at ground level and moves without air resistance. All portions of this problem will produce algebraic expressions in terms of v , θ , and g . Let the origin of the Cartesian coordinate system be the ball's initial position.

a. Write an expression for the magnitude of the football's initial vertical velocity v_{0y} .

b. Find an expression for the magnitude of the football's initial horizontal velocity v_{0x} .

c. Write an expression for the total time, t_{total} , the football is in the air.

Prob #	Weight
4.1.2	
4.3.2	
4.3.6	
5.6.14	
4.3.10	

1	Dec 28, 2020 12:01 AM
1	Jul 30, 2020 12:01 AM
1	Dec 27, 2017 12:00 AM
1	Dec 27, 2017 12:00 AM
1	Jul 30, 2020 12:01 AM
1	Jul 30, 2020 12:01 AM
1	Jul 30, 2020 12:01 AM
2	Dec 25, 2019 12:00 AM
1	Dec 28, 2016 12:01 AM

Performing Actions on a Class

There are many actions that you will need to add or maintain a class and you will find these in the **Class Menu**. To perform an action on a class you must first select the class you want to work on from the **Classes** drop-down, see [Figure 6](#).

Figure 6: Classes Drop-Down

With the desired class selected you can choose an action from the **Class Menu** drop down shown in [Figure 7](#) below.

Note: if you have only one class it will be automatically selected.

Class Calendar View

Instructors can toggle to a new calendar view of their assignments for one or multiple courses. In this view, assignment dates can be adjusted quickly by dragging the assignment to a different date on the calendar. Please watch the following video for an in-depth tour of the calendar and its associated features.

[Calendar Overview Video](#)

Add/Create a Class

To add a new class, select **Create Class** from the **Class Menu** drop-down (Figure 7) and you will be presented with the pop-up screen seen in Figure 8 below.

Figure 7: Class Menu

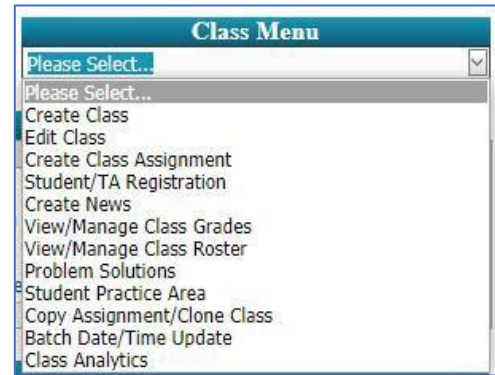


Figure 8: Create/Edit Class

Fill in your class name and class description. Then use the drop-down menus to select your **Time Zone**, **Academic Year**, **Academic Semester**, and **Subject**.

Figure 9: Academic Semester or Quarter Selection

In the **Academic Semester** drop-down menu, seen in Figure 9, you will see semester choices and quarterly choices to choose from.

Figure 10: Subject Selection

The screenshot shows a 'Create/Edit Class' form. The fields are: Class Name (empty), Class Description (empty), Time Zone (dropdown set to '(UTC-06:00) Central Time (US & Canada)'), Academic Year (dropdown set to '2021'), Academic Semester (dropdown set to 'Spring'), and Subject (dropdown menu open). The Subject dropdown shows 'Please Select...' at the top, followed by another 'Please Select...' option, and then a list of subjects: Physics, Biology, Astronomy, and Other. A 'Save' button is located below the Subject dropdown.

In the **Subject** drop-down menu, seen in [Figure 10](#), you will select the subject of your class.

When you are finished select the **Save** button to save your creation, or the **Cancel** button to exit the window without saving.

Note: The **Academic Semester** and **Subject** choices are particularly important because they will affect the class pricing for the students.

Editing a Class


To edit a class, select the class you want to edit from the **Classes** drop-down on the **Class Management** page, and then select the **Edit Class** option from the **Class Menu** drop-down ([Figure 7](#)). This will take you to a pop-up screen, like the one you used to create the class, but the fields will be populated with the class information (see [Figure 11](#)). When you have finished making any desired changes, click either the **Save** button to save the changes or the **Cancel** button to leave without saving any changes.

Figure 11: Edit a Class

The screenshot shows the 'Create/Edit Class' form with pre-filled information: Class Name: 'Phy 101-001 (Fall 2021)', Class Description: 'Intro Physics I with Dr. Morton', Time Zone: '(UTC-06:00) Central Time (US & Canada)', Academic Year: '2021', Academic Semester: 'Fall', and Subject: 'Physics'. Below the Subject dropdown is a blue link 'Configure my Class for LMS Integration'. At the bottom are 'Save' and 'Cancel' buttons.

At the bottom of this pop-up screen, you will notice a blue link [Configure my Class for LMS Integration](#). LMS integration is needed for software like Canvas and Blackboard. Since not everyone uses this feature, we have created a separate document with detailed instructions that can be found on our website at <https://theexpertta.com/lms-integration/>.

Create News

You may occasionally want to broadcast news to your entire class, such as notice of an upcoming test or holiday. To do this select **Create News** from the **Class Menu** drop down (Figure 7) on the **Class Management** screen. A pop-up window will open and allow you to enter news announcements (Figure 12). Enter a title for your news announcement in the **Title** line and type your announcement in the **Body** section. When you are finished click on the **Save** button to save your news announcement or click on the  in the upper right-hand corner to exit without saving.

The news announcement is displayed in the **Class News** window at the bottom of the **Class management** page (Figure 13). Announcements have a time and date stamp and are listed in the order they are posted, with the most recent announcement /news listed at the top. To delete news, click on the blue **Delete** to the far right of the announcement.

Figure 12: Create News



Click the "X" to exit without saving

Create News

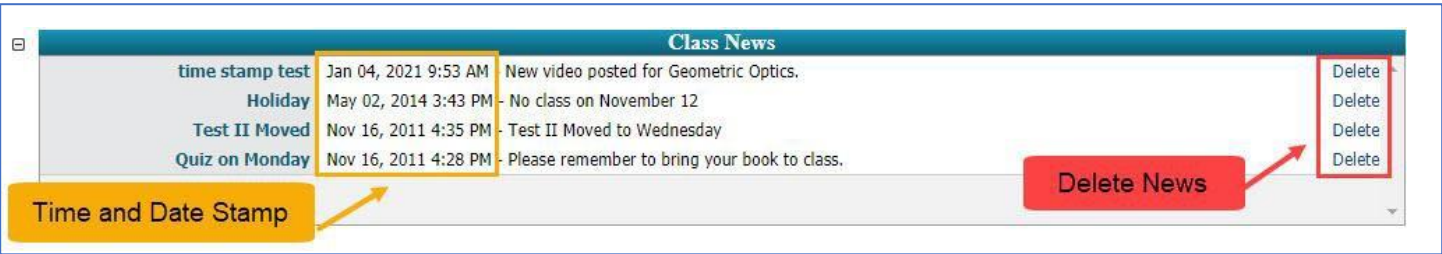
Title:
Enter a title for your news announcement here

Body:
Enter your news announcement text here. This text box allows for a message of up to 1000 characters.

Save

Click Save to save the news announcement

Figure 13: Class News



Class News			
time stamp test	Jan 04, 2021 9:53 AM	New video posted for Geometric Optics.	Delete
Holiday	May 02, 2014 3:43 PM	No class on November 12	Delete
Test II Moved	Nov 16, 2011 4:35 PM	Test II Moved to Wednesday	Delete
Quiz on Monday	Nov 16, 2011 4:28 PM	Please remember to bring your book to class.	Delete

Time and Date Stamp

Delete News

Student/TA Registration

Expert TA uses Registration Links to register students and TAs into their courses. Registration links are unique to each individual class created in Expert TA. To view the registration information for your class, first select your class from the **Classes** drop-down on the **Class Management** page. Then select **Student/TA Registration** from the **Class Menu** drop-down. A pop-up window will appear and display the **Student Registration Link**, see [Figure 14](#). If you have a TA that needs to register for your class, click on the **Get TA Registration Link** button and the **Teaching Assistant Registration Link** will appear under the **Student Registration Link**.

Figure 14: Student/TA Registration Links



Note: Take great care with the TA registration link as it provides nearly instructor level access to the class.

Student Registration

Simply provide the registration link to your students. [Expert TA: Student Registration Instructions](#) are available at the end of this document and include detailed step by step instructions on the registration process.

Note: If you provide the **Student Registration Link** on a syllabus, make sure to update the link information **before** distribution at the start of a new term.

TA Registration

Simply provide the **Teaching Assistant Registration Link** to your TA and follow the [Expert TA: Student Registration Instructions](#) at the end of this document. The registration process for a TA is identical to the student, with the exception that the TA will not see a payment screen because there is no fee associated with the TA registration.

Note: If the TA previously used Expert TA as a student with the same email address, please contact your Account Manager to have their account re-created for full TA access.

Restrict Enrollment

By default, the system assumes you want open and unrestricted enrollment. You can restrict the enrollment by clicking on the blue words [Registration Options](#) in the **Student/TA Registration** window shown in [Figure 14](#). This will take you to a screen, as seen in [Figure 15](#) below, which will allow you to limit the enrollment into your class. Below you will find explanations of what each check box will do.

Figure 15: Restrict Enrollment

#	Email / User Login	First Name	Middle Name	Last Name	Student No	Registered User	Registered Date
No data to display							

- A. **Open Enrollment Validation** – Students will only be able to register from the start date to the end date. To use click the checkbox, set your **Start Date** and **End Date**, and click the **Save** button at the bottom.
- B. **User/Email Suffix Validation** – This requires that any students registering for a class have a matching suffix in their user/email login name. For example, if all of your students have an @university.edu email, then you could use @university.edu in this field, so that abc123@university.edu would validate but abc123@gmail.com would not. To use click on the check box, enter the email suffix in the field provided, and click the **Save** button at the bottom.
- C. **Roster Validation** – this setting requires that all users registering for a class have a matching user/email address in the registration roster. To use follow the step-by-step instructions below.
- Click on the check box for **Roster Validation**
 - Click on the **Upload Registration Roster** button
 - After you click on the **Upload Registration Roster** button, a pop-up box will appear (see [Figure 16](#)).
 - Choose your file by clicking on the **Choose File** Button (file should be in string mode and csv format)
 - Upload the file by clicking on the **Upload** button
 - After you have uploaded your roster, a sample of your data will appear (see [Figure 17](#)). If you wish to continue with the upload, click the **Save** button to save your roster or click the **Cancel** button to discard your changes.

Figure 16: Registration Roster Upload

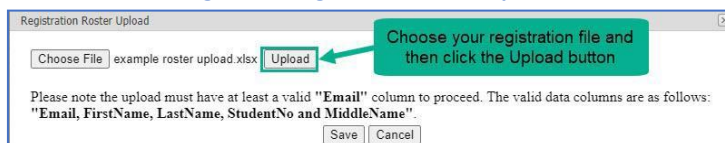
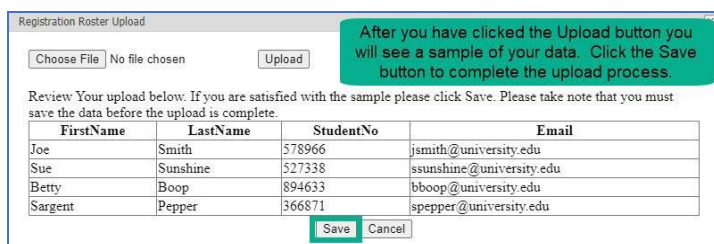


Figure 17: Registration Roster Preview



View/Manage Class Roster

To see a list of the students currently registered for your selected class, select **View/Manage Class Roster** from the **Class Menu** (Figure 7) on the **Class Management** page (see Figure 18).

Figure 18: Class Roster

Class Management | Instructor | Help

Class:

Phy 101-001

Roster

For help on this page click here.

Total: 23

#	Student Name	User Name	Student ID	Role ID	Payment	Status	Grade Sheet	Registration Date	Registration	Disability
Edit	b, a	s9876@student.com	c	student	Complete Paid \$0.00	Active	Hidden 01-04-18	11/15/2017 10:57:00 AM	Complete	None
Edit	Chovanec, Anna	i02s02@student.com	123456789	student	Complete Paid \$0.00	Active	Shown	1/7/2015 4:09:00 PM	Complete	None
Edit	Curran, Jennifer	James@student.com	4567890123	student	Complete Paid \$0.00	Active	Shown	11/8/2017 12:34:00 PM	Complete	None
Edit	Duston, Chris	cduston@gmail.com	456789	teachingassistant	Waiting	Active	Shown	7/27/2018 11:09:00 AM	Complete	None
Edit	Erdos, Paul	i02s04@student.com	1	student	Complete Paid \$0.00	Active	Shown	5/6/2020 10:06:00 PM	Complete	50%
Edit	eta, ta	ta@theexpertta.com	1234567890	teachingassistant	Complete Paid \$0.00	Active	Hidden 03-30-16	4/29/2015 3:24:00 PM	Complete	None
Edit	Euler, Leonhard	i02sp1@student.com	$e^{-i\pi} + 1 = 0$	student	Complete Paid \$32.50	Active	Shown	5/6/2020 10:04:00 PM	Complete	None

To edit information on each student, click on the blue **Edit** to the left of the student's name. This will expand the student information into a window where their information can be edited (see Figure 19).

Figure 19: Edit Student Info

Chovanec, Anna	i02s02@student.com	123456789	student	Complete Paid \$0.00	Active	Shown	1/7/2015 4:09:00 PM	Complete	None
----------------	--------------------	-----------	---------	----------------------	--------	-------	---------------------	----------	------

Student Name: Chovanec, Anna

Last Name:* Chovanec

First Name:* Anna

Middle Name:

User Name: i02s02@student.com

Student ID:* 123456789 A

Active Status: ☒ B

Show In Grade Sheet: ☒ C

Disability Settings - % extra time allowed on timed assignments: 0 D

To save changes click "Update" or click "Cancel" to discard changes

Update Cancel

- A. **Student ID** – this field can be edited when necessary (see [Editing Student ID Number](#) for more information)
- B. **Active Status** – uncheck this and it will drop the student from your class and **Grade Sheet** (see [Dropping Students from your Class](#) for more details)
- C. **Show In Grade Sheet** – uncheck this and the student will be hidden in your **Grade Sheet** (see [Hiding Students in your Grade Sheet](#) for more details)
- D. **Disability Settings** – adding a percentage of time here will add that time to any timed assignment (see further description in [Students with Disabilities](#))

Searchable Class Roster

You can now search the roster for all fields. This includes searching for student first or last name, student email, and student id. You also have the ability to search for text that would be included in any of the other fields in the roster including: payment field, status, grade sheet (visible/hidden), registration date, registration, and disability setting.

Example Searches

- Search for "Paid \$0.00" to see a list of all students who are still on the free trial.
- Search for "1/19" to see all students who registered on January 19th.
- Search for "teachingassistant" to see all TA's or co-instructors for the course.
- Search for "waiting" to see any students who have done the first step of registration but who have not yet paid or selected the free trial option.
- Search for "dropped" to see any students where the instructor has removed the student from the class.
- Search for "Hidden" to see any students who are still enrolled in the course but hidden from the grade sheet.

Editing Student ID Number

In many cases the Student ID is used to match up grades when exporting and importing grades into other programs such as Blackboard, Desire2Learn and Moodle. If a student enters in the wrong ID or leaves this information out, it can cause errors when trying to do such imports and exports. While students do have an interface that allows them to change their own Student ID, and you can request that they all get their own information accurate, errors may still occur. The edit screen will allow you to change the Student ID to avoid those errors.

Hiding Students in your Grade Sheet

You can decide here whether to show the student in your grade sheet. If a student has dropped or is auditing your class, you can hide them in your grade sheet by unselecting the **Show In Grade Sheet** checkbox, see [Figure 19](#). This will keep their grades from being included in any grade exports. This action can be reversed by selecting the **Show In Grade Sheet** checkbox.

Note: Hidden students still have full access to the class and can see their grades, your class material, take assignments, view solutions, etc.

Dropping Students from your Class

You can also change the student's status from active to dropped by unselecting the **Active Status** checkbox, see [Figure 19](#). This will cut off that student's access to your class entirely and remove them from your grade sheet. The student will not have access to any of your course materials. This action can be reversed by selecting the **Active Status** checkbox to reinstate them back to the class fully.

Students with Disabilities

Many students need additional time for timed assignments. For these cases you can set an extra time percentage (from 0 to 100 percent) for a student in your class roster, see [Figure 19](#). This extra time percentage will then be afforded automatically for the student on **ALL** timed assignments that are created during the semester. Example Case: If you set a student's extra time at 50, then that student would be allowed 150% of the amount of time as all the other students in the class (90 minutes for a 60-minute test). You can key in this percentage or use the up/down arrow keys to change it in increments of five percent.

Once you have completed editing the settings for this student, click on either [Update](#) to save the settings or [Cancel](#) to exit without saving in the bottom right corner of the window (see [Figure 19](#)).

Viewing and Managing the Grade Sheet

From the **Class Management** page, select **View/Manage Class Grades** from the **Class Menu** (see [Figure 7](#)) drop-down.

The **Grade Sheet** below ([Figure 20](#)) shows each student's individual grades on homework, quizzes, and tests completed to date. In the light blue bar, you can see the weight of each assignment. This page can be sorted or filtered by **Last Name**, **First Name**, **Email**, **Student ID Number**, or **Section**. To see all the grades for a single student, click on any of the blue links with their information. To see all the grades for a particular section, click on the section name or number in blue. To see more detail for a particular assignment, click on the assignment header and you will be taken to the **Assignment Grade Spreadsheet** ([Figure 22](#)).

Figure 20: Grade Sheet

Phy 101-001					<input type="text"/> Search <input type="button" value="Clear"/> <input type="checkbox"/> Points View Export to: CSV <input type="button" value="Save"/>					
Last	First	Email	Student No	Section	(01) Intro to Expert TA	(02) homework 1	(03) Quiz 1	(04) homework 2	(05) homework 3	(06) FBD
Chovanec	Anna	i02s02@student.com	123456789		1.00	15.00	2.00	1.00	1.00	
Current	Jennifer	James@student.com	4567890123		0	94.07	10.55	88.59	38.9	
Erdos	Paul	i02s04@student.com	1		0	98.46	0	97.36	0	
Euler	Leonhard	i02sp1@student.com	$e^{\pi i} + 1 = 0$	A01	0	0	0	0	0	
Mayer	Maria	i02s09@student.com	1963Nobel	A01	0	0	0	0	0	
Morton	Jeremy	jeremy2@theexpertta.com	1234567890		0	0	0	0	0	
Newton	Isaac	s657@student.com	6674×10^{-11}	A01	0	0	0	0	0	
Ramanujan	Srinivasa	abc@student.com	1729	A01	0	0	0	0	0	
Sanchez	Vickey	i02s03@student.com	345678901		0	55.82	0	60.45	0	
Shapiro	Elena	Elena@gmail.com	7890123456		0	0	0	0	0	
Singh	Ramandeep	i02s10@student.com	123456786		0	95.93	0	85.93	0	
Strickland	Donna	s012020@student.com	2018Nobel	A01	0	0	0	0	0	
Averages					0	28.69	0.88	27.69	3.24	

- A. Sort and Filter Columns
- B. Assignment Names – click to enter the assignment
- C. Click on any of these items to see the grades for a single student
- D. Click on the Section name/number to see grades for only that section

Figure 21: View Grades (Spreadsheet)

Assignment	Weight	Publish
Learning Expert TA	1	May 01, 2021 12:01 AM
▼ Create Assignment		AM
▼ Edit Assignment		AM
▼ Delete Assignment		AM
▼ Take Assignment		AM
View Printable Assignment		
Copy Assignment		
View Grade Report (shows your detailed work)		
Manage Grades (Grade Manually)		
View Grades (Spreadsheet)		
View Assignment Solutions		
Take in Practice Mode		
Export Assignment Text Answers		
Assignment Analytics		

The **Assignment Grade Spreadsheet** can also be found by going to the **Class Management** page, clicking the down arrow next to the assignment, and selecting **View Grades (Spreadsheet)**, as seen in [Figure 21](#).

The **Assignment Grade Spreadsheet** screen, in [Figure 22](#) below, shows the grades accomplished on each problem in the assignment and the weighted averages.

Figure 22: Assignment Grade Spreadsheet

Class Management | Instructor | Help

Phy 101-001 homework 1

Search Clear ☐ Points View Export to: CSV Save

Problem weights are displayed here

Click on a grade to see more details

Weighted averages are displayed here

Last	First	Email	Student No	Section	Prob (01)	Prob (02)	Prob (03)	Prob (04)	Prob (05)	Prob (06)	Averages
					1.00	1.00	1.00	1.00	1.00	1.00	Problem Weight
Chovanec	Anna	i02s02@student.com	123456789		98	97.17	92	92	89	96.25	94.07
Current	jennifer	James@student.com	4567890123		0	0	0	0	0	0	0
Erdos	Paul	i02s04@student.com	1		94	100	100	100	98	98.75	98.46
Euler	Leonhard	i02sp1@student.com	$e^{i\pi} + 1 = 0$	A01	0	0	0	0	0	0	0
Mayer	Maria	i02s09@student.com	1963Nobel	A01	0	0	0	0	0	0	0
morton	jeremy	jeremy2@theexpertta.com	1234567890		0	0	0	0	0	0	0
Newton	Isaac	s657@student.com	$6674 \times 10^8 - 11$	A01	0	0	0	0	0	0	0
Ramanujan	Srinivasa	abc@student.com		01	0	0	0	0	0	0	0
Sanchez	Vickey	i02s03@student.com			44.5	65.33	17	0	0	68.75	55.82
Shapiro	Elena	Elena@gmail.com			0	0	0	0	0	0	0
Singh	Ramandeep	i02s10@student.com	123456786		93.5	97.17	92	96.67	97.5	98.75	95.93
Strickland	Donna	s012020@student.com	2018Nobel	A01	0	0	0	0	0	0	0
Averages					27.5	29.97	25.08	29.33	30.04	30.21	28.69

Points View

You can also view grades as points, instead of a percentage. To view grades as points, simply click on the **Points View** check box. In **Figure 23**, you can see that Anna Chovanec received an 89% on problem 4. Since the problem is worth three points, the student earned 2.67 points. In this view, the far-right column displays the total number of points earned instead of the average. To see even more detail, select the student's grade and you will be taken to the manual grading screen (see **Figure 33**).

Figure 23: Points View

Class Management | Instructor | Help

Phy 101-001 homework 2

Search Clear ☒ Points View Export to: CSV Save

Check this box for Points View

Last	First	Email	Student No	Section	Prob (01)	Prob (02)	Prob (03)	Prob (04)	Prob (05)	Total Points: 10.00
					1.50	2.00	2.50	3.00	1.00	Problem Weight
Chovanec	Anna	i02s02@student.com	123456789		1.46	1.99	1.84	2.67	0.9	8.86
Current	jennifer	James@student.com	4567890123		0	0	0	0	0	0
Erdos	Paul	i02s04@student.com	1		1.47	1.99	2.41	2.96	0.92	9.75
Euler	Leonhard	i02sp1@student.com	$e^{i\pi} + 1 = 0$	A01	0	0	0	0	0	0
Mayer	Maria	i02s09@student.com	1963Nobel	A01	0	0	0	0	0	0
morton	jeremy	jeremy2@theexpertta.com	1234567890		0	0	0	0	0	0
Newton	Isaac	s657@student.com	$6674 \times 10^8 - 11$	A01	0	0	0	0	0	0
Ramanujan	Srinivasa	abc@student.com	1729	A01	0	0	0	0	0	0
Sanchez	Vickey	i02s03@student.com	345678901		0.97	1.67	1.29	1.62	0.5	6.05
Shapiro	Elena	Elena@gmail.com	7890123456		0	0	0	0	0	0
Singh	Ramandeep	i02s10@student.com	123456786		0.73	1.95	2.26	2.68	0.98	8.6
Strickland	Donna	s012020@student.com	2018Nobel	A01	0	0	0	0	0	0
Averages					0.39	0.63	0.65	0.83	0.28	2.77

Working with Sections

Expert TA makes it easy to work with large classes that have recitation or lab sections. You will be able to assign homework or quizzes to the entire class but will be able to view and manage grades based on sections. Expert TA inputs the section names/identifiers while setting up your class. Students specify their section as part of the registration process by choosing from a drop-down list of the valid sections.

Note: If you would like to add sections to a class, please contact your Account Manager.

Figure 24: Sorting by Sections

Sort by sections or filter to show grades for selected sections

Last	First	Email	Student No	Section	Prob (01)	Prob (02)	Prob (03)	Prob (04)	Prob (05)	Prob (06)	Prob (07)	Prob (08)	Averages
70485				63427	100	98.5	100	98.5	100	96.25	100	97	98.78
63441				63427	92.67	100	100	97	99.5	70.25	86.5	94	92.49

Exporting Grades

You can easily export grades to manage them from a program, like EXCEL, by selecting the format from the **Export To** drop-down and then clicking the **Save** button (Figure 25). You can utilize Sort and Filter options within the **Grade Spreadsheet**. Figure 24 above shows how you could display the grades for students only in section “63427” of the large class.

Figure 25: Exporting Grades

To export select the format from this drop down

Last	First	Email	Student No	Section	(01) Intro to Expert TA	(02) homework 1	(03) Quiz 1	(04) homework 2	(05) FBD	(06) FBD
Chovanec	Anna	i02s02@student.com	123456789		0	94.07	10.55	88.59	38.9	
Current	Jennifer	James@student.com	4567890123		0	0	0	0	0	
Erdoes	Paul	i02s04@student.com	1		0	98.46	0	97.36	0	
Euler	Leonhard	i02sp1@student.com	$e^i \pi + 1 = 0$	A01	0	0	0	0	0	

Manage Grades (Grade Manually)

The **Manage Grades (Grade Manually)** option will open a student’s grade report and is designed for instructors to change grades, create an extension, reset problem attempts, or assess student responses to open-ended questions.

The manual grading screen can also be accessed from the **Class Management** screen by clicking the down arrow next to the assignment and selecting **Manage Grades (Grade Manually)** from the assignment menu (Figure 26).

Figure 26: Manage Grades (Grade Manually)

Assignment	Weight	Publish
Learning Expert TA	1	May 01, 2021 12:01 AM

- Create Assignment
- Edit Assignment
- Delete Assignment
- Take Assignment
- View Printable Assignment
- Copy Assignment
- View Grade Report (shows your detailed work)
- Manage Grades (Grade Manually)**
- View Grades (Spreadsheet)
- View Assignment Solutions
- Take in Practice Mode
- Export Assignment Text Answers
- Assignment Analytics

Figure 27: Basic Grade Report

The **Basic Grade Report** screen allows you to see a detailed view of the problem the student received, the last answer the student entered for the problem (or problem part), and the grade the student received (see [Figure 27](#)).

Expanded Grade Report Screen

The **Expanded Grade Report** screen, see [Figure 28](#), contains additional details that are not automatically available in the **Basic Grade Report** like correct answers and a detailed submission history.

Grade View - homework 2

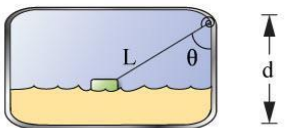
Previous Next Student: Chovanec, Anna

Extension: Publish Start Due End Solution Visible Publish Until

Problem 1: The fuel tank on a car is $d = 0.44$ m tall. The fuel level in the tank is detected by a $L = 0.67$ m arm that is free to rotate about a pivot at an upper fuel tank corner. Its sensor end floats at the surface of the fuel as indicated in the diagram.

Randomized Variables

$d = 0.44$ m
 $L = 0.67$ m



Part (a) Derive an expression for the sensor height, h , above the horizontal tank bottom as a function of L , d and θ (the angle between the arm and the vertical tank wall).

Student Answer
 $h = d - L \cos(\theta)$

Grade 100 Comments sdfghj

Grade Change Apply Grade Reset Attempts

Grade Override: sdfghj

Figure 28: Expanded Grade Report

Class Management | Instructor | Help

Switch to Part Centric View

Students

Chovanec, Anna

Current, jennifer

Duston, Chris

Erdoes, Paul

Euler, Leonhard

Mayer, Maria

Morton, jeremy

Newton, Isaac

Ramanujan, Srinivasa

Sanchez, Vickey

Shapiro, Elena

Singh, Ramandeep

Strickland, Donna

Grade View - homework 2

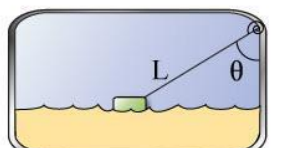
Previous Next Student: Chovanec, Anna

Extension: Publish Start Due End Solution Visible Publish Until

Problem 1: The fuel tank on a car is $d = 0.44$ m tall. The fuel level in the tank is detected by a $L = 0.67$ m arm that is free to rotate about a pivot at an upper fuel tank corner. Its sensor end floats at the surface of the fuel as indicated in the diagram.

Randomized Variables

$d = 0.44$ m
 $L = 0.67$ m



Part (a) Derive an expression for the sensor height, h , above the horizontal tank bottom as a function of L , d and θ (the angle between the arm and the vertical tank wall).

Correct Answer
 $h = d - L \cos(\theta)$

Student Answer
 $h = d - L \cos(\theta)$

Grade 100 Comments sdfghj

Grade Change Apply Grade Reset Attempts

Grade Override: sdfghj

Grade = 100%

Grade Summary

Deduction for Final Submission 0%

Deductions for Incorrect Submissions, Hints and Feedback [?] 0%

Student Grade = 100 - 0 - 0 = 100%

Date	Time	Answer	Hints	Feedback
1 Jan 31, 2013	10:00 PM	$h = d$		
2 Jan 31, 2013	10:00 PM	$h = d - L \sin(\theta)$	<ul style="list-style-type: none"> -A sketch of the tank and arm, with all variables clearly indicated, may prove useful. -What is the trigonometric function that relates the length of the side of a right triangle adjacent to an angle θ to the triangle's hypotenuse? -In terms of L and θ, what is the length of the portion of the tank adjacent to θ that is above the fuel line? Is this length h? 	<ul style="list-style-type: none"> Pay careful attention to trigonometric relationships and how they affect components of the terms in your expression.
3 Jan 31, 2013	10:00 PM	$h = d - L \cos(\theta)$		

- A. **Show Correct Answer** checkbox – when checked this displays the **Correct Answer** next to the final **Student Answer** in the grade report
- B. **Expand Submission History and Grade Summary** checkbox – when checked this expands the grade report to show every student answer submission, any hints or feedback the student used, and any deductions taken (including late work when available).
- C. Grade Change area – see [Error! Not a valid bookmark self-reference.](#) for additional information
- D. **Reset Attempts** button – see
- E.
- F. **Reset** Attempts for additional information
- G. **Create an Extension** – you can create an extension for a student by clicking Create. More information about creating extensions is provided in ([Managing Extensions for a Student](#)).

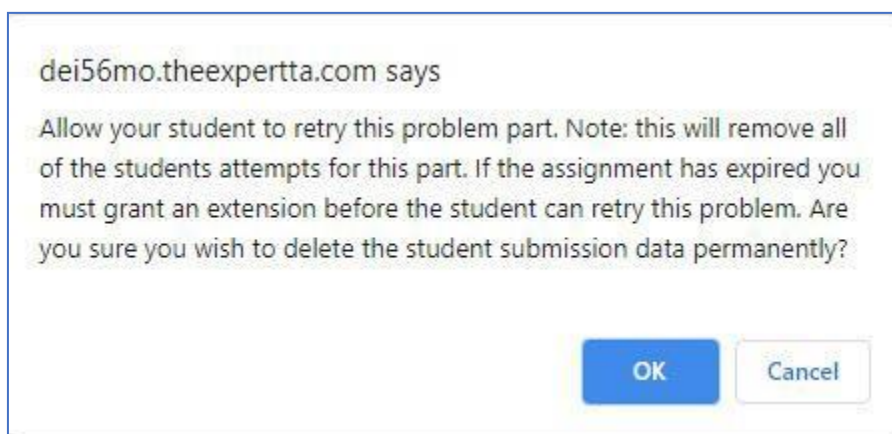
Grade Changes

You can change the grade that a student made on a problem, or problem part, by typing a number between 0 and 100 in the grade box or by using the up/down arrows. Add any comments you feel are necessary (not required), and then click the **Apply Grade** button to save your changes. When a grade has been overridden, a highlighted notation will appear on the grade sheet.

Reset Attempts

You can also reset the student's ability to submit answers for a problem, or problem part, by clicking on the **Reset Attempts** button. A message box, like the one in [Figure 29](#), will appear. To continue with the reset, click on the **OK** button or click the **Cancel** button to Cancel.

Figure 29: Reset Attempts Confirmation



Part Centric View

Part Centric View option is designed for instructors to quickly apply mass grade updates or assess student responses to open-ended questions. To access part centric view, click on Switch to Part Centric View in the upper left-hand corner of the Grade Report Screen, see [Figure 30](#).

Figure 30: Switching to Part Centric View

The screenshot shows the 'Grade View - homework 2' interface. At the top, there is a navigation bar with 'Class Management | Instructor | Help'. Below this, a yellow box highlights the 'Switch to Part Centric View' button, with an arrow pointing to it from a text box that says 'Click here to switch to Part Centric View'. The main content area is divided into two sections: 'Students' on the left and 'Problem 1' on the right. The 'Students' section lists names like Chovanec, Anna, Currant, Jennifer, etc. The 'Problem 1' section contains text about a fuel tank problem and a diagram of a fuel tank with a sensor arm of length L at an angle θ from the vertical, with a tank height d . The diagram is credited to '©theexpertta.com'.

Next, you will see a screen with the problems and their parts listed like a table of contents ([Figure 31](#)). Click on the problem or problem part to see a list of your students and their grades on the problem and part you have selected, like [Figure 33](#) below.

Figure 31: Part Centric View

The screenshot shows the 'Part Centric View' interface. At the top, there is a navigation bar with 'Class Management | Instructor | Help'. Below this, a yellow box highlights the 'Switch to Assignment Centric View' button, with an arrow pointing to it from a text box that says 'Click here to go back to the Basic Grade Report'. The main content area is divided into two sections: 'Problem Part' on the left and 'Grade View - homework 2' on the right. The 'Problem Part' section lists two problems: 'Prob 1 : 1 (4.1.2)' and 'Prob 2 : 1 (4.3.2)'. Each problem has several parts (a, b, c, d) with descriptions of the tasks. The 'Grade View - homework 2' section is currently empty. A green box on the right side of the screen contains the text: 'Part Centric View displays the problems and their parts similar to a table of contents.'

In **Figure 32** below, hovering over a student's name will display the student's information. You can switch problems or problem parts by clicking on the down arrow or the blue underlined problem. You can also switch back to the Basic Grade Report by clicking Assignment Centric View near the upper left corner. Clicking on an individual student's name will reveal their grade report for the associated problem and part (**Figure 33**).

Figure 32: Part Centric View Problem Part

Class Management | Instructor | Help

Switch to Assignment Centric View

For help on this page click here.

Problem Part

Prob 1 : 1 (4.1.2) Part a

Student	Grade	Comment
Chovanec, Anna	100	sdfghj
Currant, Jennifer	-	-
Duston, Chris	-	-
Erdos, Paul	95	hadfjdas
Euler, Leonhard	-	-
Mayer, Maria	-	-
morton, jeremy	-	-

Grade: 100

Options: ☒ grade override for total part [?]

Apply Grade Reset Attempts

Comments

Individual Student Data

Name: morton, jeremy

Email: jeremy2@theexpertta.com

StudentNo: 1234567890

Disability: None

Grade:

Comments:

- Switch back to the Basic Grade Report by clicking here
- Easily change to another problem part in the assignment in this drop-down menu
- Hovering over a student name will display the student's information

In the manual grading screen, seen in **Figure 33** below, you can see the student's answers, including any hints and feedback they used. Reset attempts is also available in this screen by clicking on the **Reset Attempts** button.

Grade Override

Lastly, see **Figure 33**, notice the checkbox labeled **grade override for total part [?]**. Before you change a grade, there are two options to consider.

- Leave the box selected. This will override the student's grade for the entire part, so that the value in the Grade box will become the student's grade. This will remove any deductions previously assessed for incorrect answers, hints, feedback, or late work. **This option is selected by default, and we recommend you leave it selected.**
- Unselect the box. This will affect only the student's final answer credit. Any deductions previously acquired for incorrect answers, hints, feedback, and late work will be deducted from the edited grade entered.

Once you have determined the type of grade modification you would like to make, you can edit the student's grade by using the up and down arrows or by typing a number between 0 and 100 in the box. Add any comments you feel are necessary (not required) and then click on the **Apply Grade** button to save the changes. When a grade has been overridden you will see a highlighted notation.

Note: The grade value and comments associated with a change will remain in the same state as you navigate to different students. This will allow mass updates to be made quickly without opening separate grade reports for each student. IF you are assessing open-ended questions, be sure to update the grade and comments as necessary for each individual student.

Figure 33: Grading Manually Problem View

Class Management | Instructor | Help

Switch to Assignment Centric View

Problem Part: Prob 1: 1 (4.1.2) Part a

Grade View - homework 2

For help on this page click here.

Student Grade Comment

Student	Grade	Comment
Chovanec, Anna	100	sdfghj
Current, Jennifer	-	-
Duston, Chris	-	-
Erdos, Paul	95	hadfidas
Euler, Leonhard	-	-
Mayer, Maria	-	-
Morton, Jeremy	-	-
Newton, Isaac	-	-
Ramanujan, Srinivasa	-	-
Sanchez, Vickey	67	-
Shapiro, Elena	-	-
Singh, Ramandeep	95	-
Strickland, Donna	-	-

View All Answers

Options

☒ grade override for total part [?]

Apply Grade

Reset Attempts

Comments

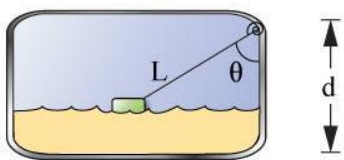
Individual Student Data

Chovanec, Anna - i02s02@student.com

Problem 1: The fuel tank on a car is $d = 0.44$ m tall. The fuel level in the tank is detected by a $L = 0.67$ m arm that is free to rotate about a pivot at an upper fuel tank corner. Its sensor end floats at the surface of the fuel as indicated in the diagram

Randomized Variables

$d = 0.44$ m
 $L = 0.67$ m



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Part (a) Derive an expression for the sensor height, h , above the horizontal tank bottom as a function of L , d and θ (the angle between the arm and the vertical tank wall).

Grade = 100%

Grade Override: sdfghj

Correct Answer

$h = d - L \cos(\theta)$

Student Final Submission

$h = d - L \cos(\theta)$

Feedback

Correct!

Grade Summary

Deduction for Final Submission 0%

Deductions for Incorrect Submissions, Hints and Feedback [?] 0%

Student Grade = 100 - 0 - 0 = 100%

Submission History

All Date times are displayed in Central Standard Time. Red submission date times indicate late work.

Date	Time	Answer	Hints	Feedback
1 Jan 31, 2013	10:00 PM	$h = d$		
2 Jan 31, 2013	10:00 PM	$h = d - L \sin(\theta)$	<ul style="list-style-type: none"> -A sketch of the tank and arm, with all variables clearly indicated, may prove useful. -What is the trigonometric function that relates the length of the side of a right triangle adjacent to an angle θ to the triangle's hypotenuse? -In terms of L and θ, what is the length of the portion 	<ul style="list-style-type: none"> • Pay careful attention to trigonometric relationships and how they affect components of the terms in your expression.

- A. Edit a student grade or manually grade problem here
- B. **Grade override for total part [?]** checkbox – see [Grade Override](#) for more information
- C. **Reset Attempts** button – see
- D.
- E. **Reset** Attempts for more information
- F. Detailed grade report including any hints or feedback accessed. Any grade override comments are highlighted.

Managing Assignments

Create an Assignment

First, select the class you want to create the assignment in from the **Classes** drop-down. (See [Figure 34](#), if there is only one class it will already be selected). Select **Create Class Assignment** from the **Class Menu** drop-down. This will take you to the **Assignment Edit/Create** window, as seen in [Figure 35](#).

Figure 34: Create Class Assignment

If you have more than one class, select your class by using this drop-down

Classes	
Physics Demo	

Additional Class Resources	
Name	Description
Expert TA: Physics I Video Series	A comprehensive collection of physics videos, designed for the flipped classroom
Expert TA: Physics II Video Series	A comprehensive collection of physics videos, designed for the flipped classroom
UMD PHYS 107 Lab Materials	PDF's of all lab manuals and additional lab resources for Physics 107 at the Univer

Assignments							
Assignment	Weight	Publish	Start	Due	End	Min	Template
▼ Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM		Instructor Default

Figure 35: Assignment Edit/Create Window

Class Management | Instructor | Help

Physics Demo

Save Only Save And Exit Undo Changes Delete Assignment Printable Assignment View Solutions Extensions Security

Assign. Name: Weight: 1 Grade Template: Instructor Default

Description: Integrity Temp.: Instructor Default

Add Question Pool Add To Expand

Prob #	Weight	Problems
A		
B		
C		

Books: Expert TA: Introduction to Physics

Chapters: Expert TA System

Filter by Problem Difficulty and Type

☒ All Problems ☐ 1 Easy ☐ 2 Medium-Easy ☒ All Problems ☐ Algebra

☐ 3 Medium ☐ 4 Medium-Hard ☐ 5 Hard ☐ Calculus ☐ Conceptual

☐ Expand All Sections ☐ Show Answers Key: ● Problem used in another assignment for this class

For help on this page click here

Publish Date (Date the Assignment will be visible to Students in their list)

Date: 05/01/2021 12:01 AM

Assignment Dates

Start: 07/08/2021 12:01 AM

Due: 07/15/2021 11:59 PM

End: 07/15/2021 11:59 PM

☐ Timed Assignment 60 Min

Students can View Solutions

Start:

Publish Until (Last Date that Students can View Work/Solutions)

End: 08/31/2021 12:00 AM

Take in Practice Mode

Start:

End:

- Set the name and description for the assignment in this area.
- Weight** – the weight of an assignment is how much affect it has on the student's grade average. The higher the number the more effect it has. You can key in the weight for an assignment, from 0 to 999, or you can use the up and down arrows to change the weight.

- C. This is where you can set the **Grade Templates** and **Integrity Templates** for the assignment. See [Grade Templates](#) and [Integrity Preferences](#) for more information.
- D. The dates in the **Edit Assignment** page affect when the assignment is due, when the student can see the assignment, and much more. See [Specify Assignment Availability Dates](#) for more information on this area.
- E. This is the area where you select your book and chapter when selecting problems for an assignment. See [Selecting Problems](#) for more information.

Selecting Problems

To select your problems, first select your book from the **Books** drop-down menu ([Figure 36](#)).

Note: Your default book will already be selected. If you need additional books, please contact your account manager.

Figure 36: Select the Book

Books			Chapters	
Expert TA: Introduction to Physics			Expert TA System	
Filter by Problem Difficulty and Type				
<input checked="" type="checkbox"/> All Problems	<input type="checkbox"/> 1 Easy	<input type="checkbox"/> 2 Medium-Easy	<input checked="" type="checkbox"/> All Problems	<input type="checkbox"/> Algebra
<input type="checkbox"/> 3 Medium	<input type="checkbox"/> 4 Medium-Hard	<input type="checkbox"/> 5 Hard	<input type="checkbox"/> Calculus	<input type="checkbox"/> Conceptual

Next, select the chapter from the **Chapter** drop-down menu located to the right of the **Books** drop-down menu ([Figure 37](#)).

Figure 37: Select the Chapter

Books			Chapters	
Expert TA: Introduction to Physics			Expert TA System	
Filter by Problem Difficulty and Type				
<input checked="" type="checkbox"/> All Problems	<input type="checkbox"/> 1 Easy	<input type="checkbox"/> 2 Medium-Easy	<input checked="" type="checkbox"/> All Problems	<input type="checkbox"/> Algebra
<input type="checkbox"/> 3 Medium	<input type="checkbox"/> 4 Medium-Hard	<input type="checkbox"/> 5 Hard	<input type="checkbox"/> Calculus	<input type="checkbox"/> Conceptual

After selecting a chapter, you will see expandable categories of problems separated into sections by problem type ([Figure 38](#)).

Figure 38: Collapsed Sections by Problem Type

Books			Chapters	
Expert TA: Introduction to Physics			1. Units and Physical Quantities	
Filter by Problem Difficulty and Type				
<input checked="" type="checkbox"/> All Problems	<input type="checkbox"/> 1 Easy	<input type="checkbox"/> 2 Medium-Easy	<input checked="" type="checkbox"/> All Problems	<input type="checkbox"/> Algebra
<input type="checkbox"/> 3 Medium	<input type="checkbox"/> 4 Medium-Hard	<input type="checkbox"/> 5 Hard	<input type="checkbox"/> Calculus	<input type="checkbox"/> Conceptual
<input type="checkbox"/> Expand All Sections <input type="checkbox"/> Show Answers Key: Problem used in another assignment for this class				
<div style="border: 2px solid magenta; padding: 5px; margin-bottom: 10px;"> + 1.1 - Fundamental Elements + 1.2 - Density + 1.3 - Dimensional Analysis + 1.4 - Unit Conversions + 1.5 - Significant Figures </div> <div style="background-color: #FFDAB9; padding: 10px; border: 1px solid black; margin-bottom: 10px;"> These are the collapsed categories of problems. Click on the "+" beside a category to see all the problems in that section. </div>				

The **Show Answers Basic** is demonstrated in the following figure. Simply check the highlighted box and the answers for each question will show in a green colored font below each part of the problem in the catalog.

Figure 39: Show Answers for Basic Answer Types

Books	Chapters
Expert TA: Introduction to Physics	1. Units and Physical Quantities

Filter by Problem Difficulty and Type			
<input checked="" type="checkbox"/> All Problems	<input type="checkbox"/> 1 Easy	<input type="checkbox"/> 2 Medium-Easy	<input checked="" type="checkbox"/> All Problems
<input type="checkbox"/> 3 Medium	<input type="checkbox"/> 4 Medium-Hard	<input type="checkbox"/> 5 Hard	<input type="checkbox"/> Algebra
			<input type="checkbox"/> Calculus
			<input type="checkbox"/> Conceptual

☐ Expand All Sections ☒ Show Answers Key: Problem used in another assignment for this class

1.1 - Fundamental Elements

☐ 1.1.1, Alg, 1 A circle has a diameter of 3.326 cm.

a. What is the area of the circle in cm^2 ?

$A = 3.14159 * (3.326 / 2)^2$

☐ 1.1.7, Alg, 2 Assuming the mass of an average cell is ten times the mass of a bacterium (which is 10^{-15} kg):

a. Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.

$\text{cells/hummingbird} = 10^{12}$

b. Calculate the number of cells in a human, assuming they have a mass of 10^2 kg.

$\text{cells/human} = 10^{16}$

☐ 1.1.8, Alg, 3 The times in this problem are given using metric prefixes on the base SI unit of time: the second (s). Give the times without the metric prefixes. For example, the metric prefix T (tera) stands for 10^{12} , so 47 Ts would be written as 4.7×10^{13} s.

a. **581 Ps**

time in seconds = $581 * 10^{15}$

b. **581 fs**

time in seconds = $581 * 10^{-15}$

c. **37 ns**

time in seconds = $37 * 10^{-9}$

d. **384 μs**

time in seconds = $384 * 10^{-6}$

Correct answers are displayed in green

The **Show Answers** option will also display the correct answers for our Advanced Graphical questions such as interactive Free Body Diagrams or Drag-and-Drop exercises.

Figure 40: Show Answers Including an FBD answer Type

Books	Chapters	Filter by Problem Difficulty and Type
Expert TA: Introduction to Physics	5. Newton's Laws	<input checked="" type="checkbox"/> All Problems <input type="checkbox"/> 1 Easy <input type="checkbox"/> 2 Medium-Easy <input checked="" type="checkbox"/> All Problems <input type="checkbox"/> Algebra <input type="checkbox"/> 3 Medium <input type="checkbox"/> 4 Medium-Hard <input type="checkbox"/> 5 Hard <input type="checkbox"/> Calculus <input type="checkbox"/> Conceptual

☒ Show Answers Key: Problem used in another assignment for this class

5.1 - Newton's First Law and Inertial Frames

5.2 - Mass

5.3 - Newton's Second Law

☐ c5.3.1, Cp, 4 Two blocks of unequal mass are tied together with a massless string that does not stretch and connected via a frictionless and massless pulley. Mass one, M_1 , rests on a frictionless table top. Mass two, M_2 , is released and both blocks begin to move.

a. The blocks accelerate at the same rate since they are connected. What is the acceleration? (Choose the correct answer.)

☒ A value between zero and g .

☐ Zero

☐ $g/2$

☐ g

☐ A value greater than g .

☐ Cannot be determined.

☐ 5.3.12 (IFBD), Alg, 3 A block having a mass of $m = 13.5$ kg is suspended via two cables as shown in the figure. The angles shown in the figure are as follows: $\alpha = 17^\circ$ and $\beta = 32^\circ$. We will label the tension in Cable 1 as T_1 and the tension in Cable 2 as T_2 .

a. Please use the interactive area below to draw the Free Body Diagram for the block.

b. Write an expression for the sum of forces in the x direction in terms of T_1 , T_2 , m , g , α , and β . Use the specified coordinate system.

$\Sigma F_x = T_2 \cos(\beta) - T_1 \sin(\alpha)$

c. Write an expression for the sum of forces in the y direction in terms of T_1 , T_2 , m , g , α , and β . Use the specified coordinate system.

$\Sigma F_y = T_2 \sin(\beta) + T_1 \cos(\alpha) - g m$

d. Solve for the numeric value of T_1 , in newtons.

$T_1 = 13.5 \cdot \frac{9.81}{\cos(17 \cdot \frac{3.14159}{180}) + \sin(17 \cdot \frac{3.14159}{180}) \tan(32 \cdot \frac{3.14159}{180})}$

e. Solve for the numeric value of T_2 , in newtons.

$T_2 = 13.5 \cdot \frac{9.81}{\sin(32 \cdot \frac{3.14159}{180}) + \cos(32 \cdot \frac{3.14159}{180}) \cotan(17 \cdot \frac{3.14159}{180})}$

☐ c5.3.2, Cp, 2 Consider a bowling ball of mass M attached to two ropes. One rope is tied to the ceiling and the second rope is being pulled horizontally (see figure).

a. How is the tension T_2 related to the weight of the bowling ball?

☒ T_2 is greater than the object's weight.

☐ T_2 is less than the object's weight.

☐ T_2 is equal to the object's weight.

☐ T_2 is greater than T_1 .

☐ T_2 is less than T_1 .

b. How is the tension T_2 related to the weight of the bowling ball?

☒ T_2 is greater than the object's weight.

☐ T_2 is less than the object's weight.

☐ T_2 is equal to the object's weight.

☐ T_2 is greater than T_1 .

☐ T_2 is less than T_1 .

When browsing problems, you may see an orange block (■) next to a problem (Figure 41). This indicates that the problem has been used in another assignment for the class. This does not prevent you from using the problem again in other assignments. There are no limits to the types or number of problems you can put into an assignment.

Figure 41: Previously Used Problem

The yellow square indicates that the problem has been used in an other assignment, but it can be reused and as often as you like

Books
Expert TA: Introduction to Physics

Chapters
1. Units and Physical Quantities

Filter by Problem Difficulty and Type

☒ All Problems ☐ 1 Easy ☐ 2 Medium-Easy ☒ All Problems ☐ Algebra
☐ 3 Medium ☐ 4 Medium-Hard ☐ 5 Hard ☐ Calculus ☐ Conceptual

☐ Expand All Sections ☐ Show Answers Key: ■ Problem used in another assignment for this class

1.1 - Fundamental Elements

☐ 1.1.1, Alg, 1 A circle has a diameter of 3.26 cm.
a. What is the area of the circle in cm²?

☒ 1.1.7, Alg, 2 Assuming the mass of an average cell is ten times the mass of a bacterium (which is 10⁻¹⁵ kg):
a. Calculate the number of cells in a hummingbird, assuming it has a mass of 10⁻² kg.
b. Calculate the number of cells in a human, assuming they have a mass of 10² kg.

☐ 1.1.8, Alg, 3 The times in this problem are given using metric prefixes on the base SI unit of time: the second (s). Give the times without the metric prefixes. For example, the metric prefix T (tera) stands for 10¹², so 47 Ts would be written as 4.7 × 10¹³ s.
a. 999 Ps
b. 999 fs
c. 23 ns
d. 534 μs

Selected problems will appear in the **Problems** area, beneath the assignment description (Figure 42).

Figure 42: Problem Area

Save Only Save And Exit Undo Changes Delete Assignment Printable Assignment View Solutions Extensions Security

Assign. Name: HW1 Weight: 1 Grade Template: Instructor Default
 Description: HW1 Integrity Temp.: Instructor Default

Add Question Pool

Prob #	Weight	Problems
Prob 1	1	1.1.7 x
Prob 2	1	1.1.1 x
Prob 3	1	1.1.10 x
Prob 4	1	1.1.14 x

This is the problems area. Problems will appear here in the order they were selected.

Publish Date (Date the Assignment will be visible to Students in their list)
 Date: 05/01/2021 12:01 AM

Assignment Dates
 Start: 07/22/2021 12:01 AM
 Due: 07/29/2021 11:59 PM
 End: 07/29/2021 11:59 PM

☐ Timed Assignment Min

☒ **Students can View Solutions**
 Start:
 End: 08/31/2021 12:00 AM

Hovering your mouse over a problem name will show you a preview of the problem in a pop-up window (Figure 43).

Figure 43: Problem Preview

Alg, 3
 The masses in this problem are given in units of grams (g), utilizing a metric prefix. Give the masses in kilograms (kg). For example, the metric prefix M (mega) stands for 10⁶, so 40 Mg is equal to 4.0 × 10⁴ kg.
 a. 29 mg
 b. 461 Tg
 c. 38 ng
 d. 3.4 g
 e. 4.9 Pg

Hovering over a problem number will display a preview of the problem.

Filtering Selected Problems by Difficulty and Type

Note: This only applies to the *Introduction to Physics* Book.

Figure 44: Filter by Problem Difficulty and Type

Books			Chapters	
Expert TA: Introduction to Physics			Expert TA System	
Filter by Problem Difficulty and Type				
<input checked="" type="checkbox"/> All Problems	<input type="checkbox"/> 1 Easy	<input type="checkbox"/> 2 Medium-Easy	<input checked="" type="checkbox"/> All Problems	<input type="checkbox"/> Algebra
<input type="checkbox"/> 3 Medium	<input type="checkbox"/> 4 Medium-Hard	<input type="checkbox"/> 5 Hard	<input type="checkbox"/> Calculus	<input type="checkbox"/> Conceptual

With the *Expert TA: Introduction to Physics* book, you can filter problems by difficulty and mathematical type. Near the bottom of the **Edit/Create Assignment** screen is the *Filter* panel (see Figure 44 above). You can filter the problems from which to select by difficulty (1-5, with 5 being most difficult), and/or by type; with the choices being *conceptual* (Cp), *calculus* (Calc), or *algebra* (Alg) based, by clicking the box next to your choices. You may see a "(T)" next to the problem name. This indicates that this problem is available in Tutorial mode.

In Figure 45, you can see the problem name (1.1.12), the type (Alg), and the level (3).

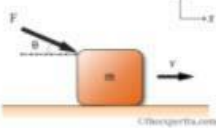
Figure 45: Problem Difficulty and Type

☐ **1.1.12, Alg, 3** The lengths in this problem are given using metric prefixes on the base SI unit of length: the meter (m). Give the lengths without the metric prefix. For example, the metric prefix P (peta) stands for 10^{15} , so 4.2 Pm is equal to 4.2×10^{15} m.

a. **83** Tm
 b. **83** pm
 c. **676** mm
 d. **0.38** μ m

Figure 46: Examples of Problem Difficulty and Type

☐ **c5.6.1, Cp, 2** A box rests on a horizontal surface. You apply a force on the box of $F = 100$ N at an angle, θ , below the horizontal and it slides at a constant velocity.



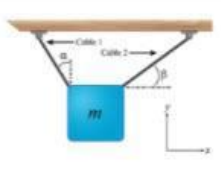
a. The friction force that acts on the box is:

☐ less than 100 Newtons.
☐ 100 Newtons.
☐ greater than 100 Newtons.

☐ **5.3.35, Calc, 2** Grains from a grain hopper fall at a rate of **9.1** kg/s vertically onto a freight car that is moving horizontally at a constant speed **2.4** m/s on a straight track.

a. What force, in newtons, is needed to keep the freight car moving at a constant velocity?

☐ **5.3.12 (iFBD), Alg, 3** A block having a mass of $m = \mathbf{16}$ kg is suspended via two cables as shown in the figure. The angles shown in the figure are as follows: $\alpha = \mathbf{11}^\circ$ and $\beta = \mathbf{26}^\circ$. We will label the tension in Cable 1 as T_1 and the tension in Cable 2 as T_2 .



a. Please use the interactive area below to draw the Free Body Diagram for the block.
 b. Write an expression for the sum of forces in the x direction in terms of T_1 , T_2 , m , g , α , and β . Use the specified coordinate system.
 c. Write an expression for the sum of forces in the y direction in terms of T_1 , T_2 , m , g , α , and β . Use the specified coordinate system.
 d. Solve for the numeric value of T_1 , in newtons.
 e. Solve for the numeric value of T_2 , in newtons.

☐ **5.3.10 (alt) (T), Alg, 2** A chandelier is suspended by two identical, vertical chains side by side. The chandelier's mass is $m = \mathbf{6.1}$ kg.

a. What is the tension in one chain, T , in newtons?
 b. If the tops of the chains are separated so that the chains are no longer vertical, does the tension increase or decrease? Hint: Think about the forces in the x and y direction separately at first

☐ Increase
☐ Decrease

In Figure 46, you can see some of the other Problem Types. Free body diagrams are designated by (iFBD). If you see an (alt) by the problem name, this indicates an alternate version of a problem.

Rate and Review Problems

We want to make it easier for you to provide us with feedback about the questions in our system. In the Assignment Editor, as you browse the catalog of questions you will see there are two separate areas for this – Rate and Review & Report an Issue.

- Rate and Review:** This feature is designed to solicit feedback about a given problem that is intended to be shared with other instructors via the assignment editor. Once vetted by the Expert TA team, these rating values (1 to 5 Stars) and review comments will be visible for each problem as other instructors create assignments. Please do NOT use “Rate and Review” to report errors, misspelled words, etc. Errors like that should be communicated via the “Report an Issue” feature.
- Report an Issue:** If there is an error in a problem, please use this option as a way to report that error to us to be corrected. You can also contact your account manager with this issue if the issue has affected your students and immediate attention is required.

Figure 47: Rate and Review in Assignment Editor

The screenshot displays the Assignment Editor interface. At the top, there are dropdown menus for 'Books' (Expert TA: Introduction to Physics) and 'Chapters' (22. Electric Charge and Electric Fields). Below these are filters for 'Problem Difficulty and Type', including checkboxes for 'All Problems', '1 Easy', '2 Medium-Easy', '3 Medium', '4 Medium-Hard', '5 Hard', 'Algebra', 'Calculus', and 'Conceptual'. A 'Sections' list on the left includes '22.1 - Properties of Electric Charges', '22.2 - Insulators and Conductors', and '22.3 - Coulomb's Law'. The main area shows a grid of problem cards. A red box with the text 'Click here for Rate and Review' points to the 'Review' button on a card. Another red box with the text 'Use the Dot-Stack Menu to choose Report an Issue' points to the 'Report an Issue' button on a card. The problem cards contain text and diagrams related to electric charges and forces.

Books Expert TA: Introduction to Physics

Chapters 22. Electric Charge and Electric Fields

Filter by Problem Difficulty and Type

☒ All Problems ☐ 1 Easy ☐ 2 Medium-Easy ☐ 3 Medium ☐ 4 Medium-Hard ☐ 5 Hard ☐ Algebra ☐ Calculus ☐ Conceptual

Sections ☐ Show Answers Key: ● Problem used in another assignment for

22.1 - Properties of Electric Charges

22.2 - Insulators and Conductors

22.3 - Coulomb's Law

Problem Cards:

- c22.3.1, Cp, 3** Two point charges exert a 4.5 N force on each other.
 - What will the force become in N if the distance between them is increased by a factor of three?
- c22.3.2 (T), Cp, 2** Two point charges are brought closer together, increasing the force between them by a factor of 21 .
 - By what factor did their separation decrease?
- c22.3.3, Cp, 4** Suppose you wanted to increase the force between two point charges by a factor of 9 .
 - By what factor must you change the distance between them?
- c22.3.4, Cp, 3** Two point charges, Q_1 and Q_2 , are separated by a distance R .
 - If the magnitudes of both charges are tripled and their separation is also tripled, what happens to the magnitude of the electrostatic force that each charge exerts on the other?
 - ☐ It stays the same.
 - ☐ It increases by a factor of 3.
 - ☐ It increases by a factor of $3^{1/2}$.
 - ☐ It decreases by a factor of $3^{1/2}$.
 - ☐ It increases by a factor of 9.
- c22.3.5, Cp, 2** Four positive point charges of equal magnitude are fixed at the center and three corners of a square, as shown in the figure.
 - What arrow best represents the net electric force acting on the charge at the center?
 - ☐ B
 - ☐ A
 - ☐ C
 - ☐ D
- c22.3.6, Cp, 3** The magnitude of the force between a pair of point charges is proportional to the product of the magnitudes of their charges and inversely proportional to the square of their separation distance.
 - Four different charge-pair configurations are presented. All charges are multiples of a common positive charge, q . All charge separations are multiples of a common length, L . Rank the four configurations from smallest to greatest magnitude of the electric force.

Creating Question Pools

Each problem you add to your assignment can also become a question pool, or a set of potential questions from which students taking the assignment will receive only one, randomly assigned problem. To create a question pool, first add problems to your assignment (**Figure 48**).

Figure 48: Add Questions to Assignment

Add Question Pool		Prob #	Weight	Problems
Add To Expand	<input type="radio"/>	Prob 1	1	1.1.7 x
	<input type="radio"/>	Prob 2	1	1.1.1 x
	<input type="radio"/>	Prob 3	1	1.1.10 x
	<input type="radio"/>	Prob 4	1	1.1.14 x

Figure 49: Select the Radio Button Next to the Problem

Add Question Pool		Prob #	Weight	Problems
Add To Expand	<input type="radio"/>	Prob 1	1	1.1.7 x
	<input type="radio"/>	Prob 2	1	1.1.1 x
	<input type="radio"/>	Prob 3	1	1.1.10 x
	<input checked="" type="radio"/>	Prob 4	1	1.1.14 x

Select the radio button next to the problem you want to build a question pool in

Next, select the problem from which you wish to build a question pool using the radio button to the left of the problem (**Figure 49**).

Figure 50: Add Problems to the Question Pool

Add Question Pool		Prob #	Weight	Problems
Add To Expand	<input type="radio"/>	Prob 1	1	1.1.7 x
	<input type="radio"/>	Prob 2	1	1.1.1 x
	<input type="radio"/>	Prob 3	1	1.1.10 x
	<input checked="" type="radio"/>	Prob 4	1	1.1.14 x | 1.1.11 x | 1.1.12 x | 1.1.13 x

With the radio button next to the problem selected, any additional problems added will populate to the right and create a question pool.

Now you can select additional problems that will begin populating to the right of the selected problem (**Figure 50**).

Figure 51: Finish the Question Pool

Add Question Pool		Prob #	Weight	Problems
Add To Expand	<input checked="" type="radio"/>	Prob 1	1	1.1.7 x
	<input type="radio"/>	Prob 2	1	1.1.1 x
	<input type="radio"/>	Prob 3	1	1.1.10 x
	<input type="radio"/>	Prob 4	1	1.1.14 x | 1.1.11 x | 1.1.12 x | 1.1.13 x

When you're finished adding problems to the question pool, click the radio button next to "Add Question to Pool" to continue adding problems to the remainder of the assignment or click the radio button next to the next problem you want to make a question pool.

When you are finished adding problems to a question pool, simply select the radio button to the right of **Add Question Pool** (**Figure 51**) to continue adding additional problems under the last problem or pool, or select the radio button next to another problem number to create another question pool.

Figure 52: Click on Expand

Add Question Pool		Prob #	Weight	Problems
Add To Expand	<input type="radio"/>	Prob 7	1	1.2.3 x
	<input type="radio"/>	Prob 8	1	1.2.8 x
	<input type="radio"/>	Prob 9	1	1.2.10 x
	<input type="radio"/>	Prob 10	1	1.2.11-alt x
	<input type="radio"/>	Prob 11	1	1.2.16 x
	<input type="radio"/>	Prob 12	1	c1.3.1-alt x
	<input type="radio"/>	Prob 13	1	1.3.2 x
	<input type="radio"/>	Prob 14	1	1.3.8 x
	<input type="radio"/>	Prob 15	1	1.3.10 x
	<input type="radio"/>	Prob 16	1	1.3.12 x

Click on "Expand" to view the entire assignment.

The **Problems** area will display ten problems at once by default. If your assignment has more than ten problems,

Figure 53: Click on Compress

Add Question Pool		Prob #	Weight	Problems
Add To Expand	<input type="radio"/>	Prob 1	1	1.1.7 x
	<input type="radio"/>	Prob 2	1	1.1.1 x
	<input type="radio"/>	Prob 3	1	1.1.10 x
	<input type="radio"/>	Prob 4	1	1.1.14 x | 1.1.11 x | 1.1.12 x | 1.1.13 x
	<input type="radio"/>	Prob 5	1	c1.2.3 x
	<input type="radio"/>	Prob 6	1	1.2.1 x
	<input type="radio"/>	Prob 7	1	1.2.3 x
	<input type="radio"/>	Prob 8	1	1.2.8 x
	<input type="radio"/>	Prob 9	1	1.2.10 x
	<input type="radio"/>	Prob 10	1	1.2.11-alt x
	<input type="radio"/>	Prob 11	1	1.2.16 x
	<input type="radio"/>	Prob 12	1	c1.3.1-alt x
	<input type="radio"/>	Prob 13	1	1.3.2 x
	<input type="radio"/>	Prob 14	1	1.3.8 x
	<input type="radio"/>	Prob 15	1	1.3.10 x
	<input type="radio"/>	Prob 16	1	1.3.12 x

Click "Compress" to return to the previous view with a scroll bar

you can use the scroll bar on the right to move up and

down or you can click on **Expand** under **Add Question Pool** (**Figure 52**) to see an expanded view of the assignment

where all the problems can be seen at once ([Figure 53](#)). To return to the previous collapsed view, click on **Compress**.

Changing the Problem Order and Deleting a Problem

Figure 54: Moving a Problem

The **Problems** area on the **Assignment Edit/Create** screen adds problems in the order they were selected. You can change the order by clicking and holding the left mouse button on the problem number to drag the problem where you want it.

Add Question Pool	Prob #	Weight	Problems
Add To	Prob 1	1	1.1.7 x
Compress	Prob 2	1	1.1.1 x
	Prob 3	1	1.1.10 x
	Prob 4	1	1.1.14 x 1.1.11 x 1.1.12 x 1.1.13 x
	Prob 5	1	c1.2.3 x
	Prob 6	1	1.2.1 x
	Prob 7	1	1.2.3 x
	Prob 8	1	1.2.8 x
	Prob 9	1	1.2.10 x
	Prob 16	1	1.3.12 x
	Prob 10	1	1.2.11-alt x
	Prob 11	1	1.2.16 x
	Prob 12	1	c1.3.1-alt x
	Prob 13	1	1.3.2 x
	Prob 14	1	1.3.8 x
	Prob 15	1	1.3.10 x

While you are moving a problem, the original problem number becomes slightly transparent and there is a gray line to help you determine where you are moving the problem.

Figure 55: Problem Move Complete

Add Question Pool	Prob #	Weight	Problems
Add To	Prob 1	1	1.1.7 x
Compress	Prob 2	1	1.1.1 x
	Prob 3	1	1.1.10 x
	Prob 4	1	1.1.14 x 1.1.11 x 1.1.12 x 1.1.13 x
	Prob 5	1	c1.2.3 x
	Prob 6	1	1.2.1 x
	Prob 7	1	1.2.3 x
	Prob 8	1	1.2.8 x
	Prob 9	1	1.2.10 x
	Prob 10	1	1.3.12 x
	Prob 11	1	1.2.11-alt x
	Prob 12	1	1.2.16 x
	Prob 13	1	c1.3.1-alt x
	Prob 14	1	1.3.2 x
	Prob 15	1	1.3.8 x
	Prob 16	1	1.3.10 x

Once you've dropped the problem where you want it the Prob # adjusts accordingly.

Once you have moved the problem where you want, let go of the left mouse button to drop it in place and the problem numbers will adjust accordingly. For example, in [Figure 53](#), there are 16 problems in the assignment. [Figure 54](#) shows Prob 16 or question 1.3.12 slightly transparent and with a gray line moving up and [Figure 55](#) shows that question 1.3.12 is now Prob 10.

Figure 56: Delete a Problem

Add Question Pool	Prob #	Weight	Problems
Add To	Prob 1	1	1.1.7 x
Compress	Prob 2	1	1.1.1 x
	Prob 3	1	1.1.10 x
	Prob 4	1	1.1.14 x 1.1.11 x 1.1.12 x 1.1.13 x
	Prob 5	1	c1.2.3 x
	Prob 6	1	1.2.1 x
	Prob 7	1	1.2.3 x
	Prob 8	1	1.2.8 x
	Prob 9	1	1.2.10 x
	Prob 10	1	1.3.12 x
	Prob 11	1	1.2.11-alt x
	Prob 12	1	1.2.16 x
	Prob 13	1	c1.3.1-alt x
	Prob 14	1	1.3.2 x
	Prob 15	1	1.3.8 x

Clicking on a red "X" will delete a problem from the assignment

To delete problems in an assignment, click on the **x** next to the question number. [Figure 56](#) shows that Prob 16 has been removed from the assignment.

Setting Problem Weights

Next to each selected problem, is the **Weight** area, where you can specify the weights for each problem (Figure 57). By default, all problems have a weight of one and they all count equally. The schema in Expert TA is that of a standard weighted average; the average is calculated by summing each problem grade times the weight, and that sum is divided by the sum of the weights.

Figure 57: Setting Problem Weights

Add Question Pool	Prob #	Weight	Problems
<input type="radio"/>	Prob 1	1	1.1.7 x
<input type="radio"/>	Prob 2	1	1.1.1 x
<input type="radio"/>	Prob 3	2	1.1.10 x
<input type="radio"/>	Prob 4	3	1.1.14 x 1.1.11 x 1.1.12 x 1.1.13 x
<input type="radio"/>	Prob 5	2	c1.2.3 x
<input type="radio"/>	Prob 6	2	1.2.1 x
<input type="radio"/>	Prob 7	3	1.2.3 x
<input type="radio"/>	Prob 8	3	1.2.8 x
<input type="radio"/>	Prob 9	3	1.2.10 x
<input type="radio"/>	Prob 10	2	1.3.12 x

Sum of Problem Weights as Assignment Weight: (New Feature Fall 2022)

Instructors can now automatically display the sum of the problem weights as the total assignment value by selecting a new option when creating an assignment.

[Click here](#) for a video walk through of this new feature.

Specify Assignment Availability Dates

Next, you will need to set the dates for the assignment. To enter the dates simply key in the date and time or use the convenient drop-down calendar or up/down arrows. A detailed explanation of what each date does is below.

Figure 58: Assignment Availability Dates

Publish Date (Date the Assignment will be visible to Students in their list)

A Date: 05/01/2021 12:01 AM

Assignment Dates

B Start: 07/06/2021 12:01 AM

C Due: 07/13/2021 11:59 PM

End: 07/13/2021 11:59 PM

☒ Timed Assignment 30 Min
Reset All Students Timers

☒ Students can View Solutions

D Start: 07/13/2021 11:59 PM

Publish Until (Last Date that Students can View Work/Solutions)

E End: 08/31/2021 12:00 AM

☒ Take in Practice Mode

F Start: 07/13/2021 11:59 PM

End: 08/31/2021 11:59 PM

- A. **Publish Date** – This is the date the assignment will be visible to the students.
- B. **Assignment Dates** –
 - a. **Start Date** – Date students can begin to enter work on an assignment
 - b. **Due Date** – Date an assignment is due.
 - c. **End Date** – If you accept late work, you can set this date to occur for a time after the due date and the student will be able to continue working on the assignment for reduced credit. Deductions for late work can be set in [Grade Preferences](#).
Note: Due Dates can be changed if no students have submitted answers for that assignment.
- C. **Timed Assignment** – When enabled, by clicking the checkbox, students are allowed the set amount of time to complete an assignment once opened. This time can be adjusted by the minute by either entering in a number or by using the up/down arrows.
 - a. **Reset All Students Timers** – click on this to reset the timers for the whole class (see [Timing an Assignment](#) for more details).
- D. **Students can View Solutions** – This is an optional setting that allows students to view the solutions to the assignment problems. See [Viewing Assignment Solutions](#).
- E. **Publish Until** – Last date an assignment is visible to the students where they can see the contents of an assignment, including their work.
- F. **Take in Practice Mode** – Dates in which the student can take the assignment for practice. (See [Take in Practice Mode](#))

Note: Keep in mind that 12:00AM is the first minute of the day. The program will not allow you to have an end date before the due date because it would cause the assignment to be inaccessible to the students. Instead, the program will automatically change the due date to match the end date.

Timing an Assignment

There are situations, like quizzes or exams, that you may want to set a limit on the amount of time allowed on an assignment (**Figure 59**).

To set time on an assignment:

1. click on the box next to **Timed Assignments**
2. then specify how many minutes the students will be allowed to complete it by typing a number from 1 to 999 in the box or by using the up/down arrows to change the number.

Figure 59: Set Time on an Assignment

The figure shows two versions of the 'Assignment Edit/Create' form. Both forms have the following fields: 'Publish Date' (05/01/2021, 12:01 AM), 'Assignment Dates' (Start: 07/22/2021, 12:01 AM; Due: 07/29/2021, 11:59 PM; End: 07/29/2021, 11:59 PM), and a 'Timed Assignment' checkbox. In the left version, the checkbox is checked. In the right version, the checkbox is checked and the timer is set to 120 minutes.

If the timer on an assignment needs to be reset for the whole class, you can click the **Reset All Students Timers** under **Timed Assignment** (**Figure 60**). When you click on **Reset All Students Timers**, you will receive a pop-up message asking if you are sure you want to reset the timers for all students. Click on **OK** to continue resetting the timers or click **Cancel** to return to the **Assignment Edit/Create** screen. If you click **OK**, you will also receive a confirmation that the timers have been reset (**Figure 61**).

Figure 60: Reset All Students Timers

The figure shows the 'Assignment Edit/Create' form with the 'Timed Assignment' checkbox checked and the timer set to 120 minutes. The 'Reset All Students Timers' button is highlighted in a pink box.

Figure 61: Reset All Students Timers Warning

The figure shows two versions of the 'Reset All Students Timers' warning dialog box. The left version shows the warning message: 'Are you sure you want to reset the assignment timers for ALL students?' with 'OK' and 'Cancel' buttons. The right version shows the confirmation message: 'All students timers for this assignment have been reset!' with an 'OK' button.

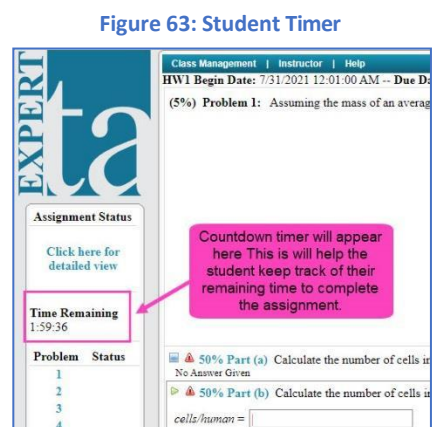
When an assignment is timed, the student will receive a warning when they open the assignment (**Figure 62**). This warning tells them how many minutes they have to complete the assignment. It also advises them that the clock does not stop running if they log out and log back in. They will have to click on **Continue** to start the assignment or **Cancel** to go back to the **Class Management** page.

Figure 62: Timed Assignment Warning for Student

The figure shows the 'Timed Assignment Warning for Student' dialog box. It contains the following text: **WARNING!** This is a **timed assignment**. Once you click "Continue", you will have **120** minute(s) to complete the assignment before it becomes locked and you can no longer submit answers. The clock **does not stop running** if you log out and log back in, so make sure you have the appropriate amount of time to complete the entire assignment. If you are not ready to start this timed assignment, click "Cancel". At the bottom are 'Continue' and 'Cancel' buttons.

When the student enters the timed assignment, there is a countdown timer on the left side of the assignment that allows them to keep track of their remaining time ([Figure 63](#)).

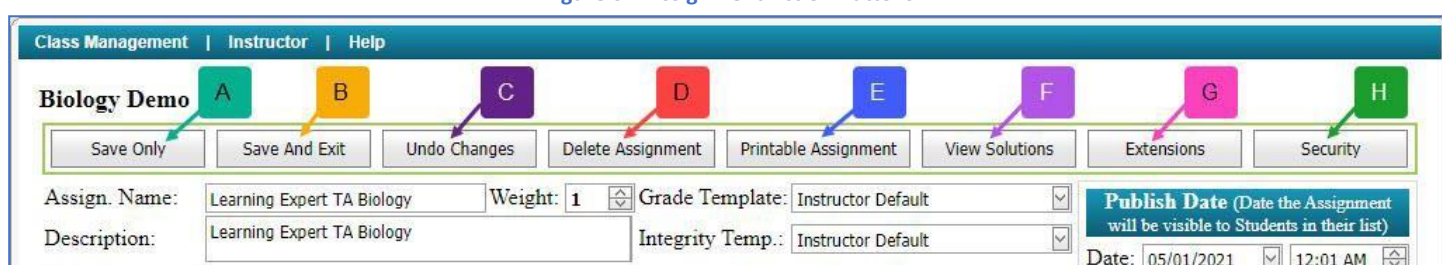
If you have individual students who require more time on a specific assignment, you can adjust their time allowance (see [Manage Extensions for a Student](#) for more information). If you have students that require more time on every assignment, see [Students with Disabilities](#) section.



Assignment Action Buttons

The assignment action buttons are located at the very top of the **Assignment Create/Edit** screen and have been defined in [Figure 64](#) below.

Figure 64: Assignment Action Buttons



- A. **Save Only** – Saves current settings and problems in the assignment
- B. **Save and Exit** – Saves current settings and problem in the assignment and exits the Create/Edit Assignment screen.
- C. **Undo Changes** – Used to undo changes on assignment since it was last saved
- D. **Delete Assignment** – This button will delete the assignment. **Warning:** All associated assignment problem and grade data will also be deleted. Be extra cautious about using this option as it cannot be undone. (See [Delete Assignment](#))
- E. **Printable Assignment** – This button will open a printable version of the assignment in a new tab. (See [View Printable Assignments](#))
- F. **View Solutions** – This button will open the solutions to the assignment in a new tab. (See [Viewing Assignment Solutions](#))
- G. **Extensions** – Allows you to set up extensions for individual students. (See [Manage Extensions for a Student](#))
- H. **Security** – Allows you to set up security options for the assignment. (See [Assignment Security Options](#))

Saving and Exiting

To save your assignment, at any time without exiting the screen, click on the **Save Only** button. To save your assignment and return to the **Class Management** page, click on the **Save and Exit** button. If you leave the assignment without using either method of saving, you will see a pop-up message advising that your changes may not be saved (see [Figure 65](#)). Click on **Leave** to continue exiting without saving or click **Cancel** to return to the assignment to save your changes.

WARNING – Are you sure you want to undo changes since last save of the assignment editor screen?
Note: This does not apply to extensions and security settings.

OK

Cancel

Undo Changes

The **Undo Changes** button is used to undo any changes made since the assignment was last saved. When you click on the **Undo Changes** button, a pop-up box will appear with a warning seen in [Figure 66](#). Click **OK** to continue with undoing the changes or **Cancel** to return to the assignment without any changes.

Editing an Assignment

After creating and saving an assignment, you will need to update various parts of the assignment from time to time.

To edit an assignment:

1. Select your class from the **Classes** drop-down menu (see [Figure 67](#)).
Reminder: If you only have one class it will already be selected for you.

Figure 67: Select Your Class

2. Click on the down arrow next to the assignment or right click on the assignment (see [Figure 68](#))

Figure 68: Accessing the Assignment Menu

Assignments								
Assignment	Weight	Publish	Start	Due	End	Min	Template	
▼ Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM		Instructor Default	▲
▼ HW1	1	May 01, 2021 12:01 AM	Jul 31, 2021 12:01 AM	Aug 06, 2021 11:59 PM	Aug 06, 2021 11:59 PM	120	Instructor Default	

Click on the down arrow or right click the assignment to access the assignment menu

3. Select **Edit Assignment** from the assignment menu ([Figure 69](#)).

Figure 69: Edit Assignment

This will

take you to the same window you used to create the assignment ([Figure 70](#)) and where you can now you can make any changes you like to the assignment.

Figure 70: Assignment Edit/Create Window

Deleting an Assignment

Warning: All associated assignment problem and grade data will also be deleted. Be extra cautious about using this option, as it **cannot be undone**.

To delete an assignment, click on the **Delete Assignment** button located in the middle of the top row in the **Assignment Edit/Create** window (Figure 71).

Figure 71: Delete Assignment Button

The screenshot shows the 'Biology Demo' assignment editor. At the top, there is a navigation bar with 'Class Management', 'Instructor', and 'Help'. Below this, the assignment name 'Biology Demo' is displayed. A row of buttons includes 'Save Only', 'Save And Exit', 'Undo Changes', 'Delete Assignment' (highlighted with a pink box), 'Printable Assignment', 'View Solutions', 'Extensions', and 'Security'. Below the buttons, there are input fields for 'Assign. Name:' (Learning Expert TA Biology), 'Weight:' (1), 'Grade Template:' (Instructor Default), 'Description:' (Learning Expert TA Biology), and 'Integrity Temp.:' (Instructor Default). On the right, there is a 'Publish Date' section with a date picker set to 05/01/2021 and a time picker set to 12:01 AM.

When you click on the **Delete Assignment** button you will receive a pop-up window with a warning (Figure 72). If the assignment has no work submitted for the assignment, you will simply continue by clicking on the **Delete** button to continue with deleting the assignment or **Cancel** to abort deleting of the assignment. If the assignment has work submitted by students, you will see the number of students that have submitted work. You must click on the checkbox beside the warning message to acknowledge that continuing with the deletion of the assignment will result in the students work will not be recoverable. Once the acknowledgement checkbox is selected you will be able to click on **Delete** to continue with deleting the assignment. If you do not acknowledge the warning message you can click on **Cancel** to abort deleting the assignment.

Figure 72: Delete Assignment Warning

The figure shows two examples of the 'Delete Assignment' warning pop-up windows. The left window is titled 'Delete 'HW2 (Copy 1)' Assignment?' and states 'No students in your class have submitted work for this assignment.' It has 'Delete' and 'Cancel' buttons. The right window is titled 'Delete 'HW4' Assignment?' and states '4 out of the 5 students in your class have submitted work for this assignment.' It includes a checkbox labeled 'WARNING: 4 students' work will be permanently deleted. I acknowledge that by proceeding with this delete, I will not be able to recover any student work.' and 'Delete' and 'Cancel' buttons.

Rate and Review Problems

We want to make it easier for you to provide us with feedback about the questions in our system. In the Assignment Editor, as you browse the catalog of questions you will see there are two separate areas for this – Rate and Review & Report an Issue.

- **Rate and Review:** This feature is designed to solicit feedback about a given problem that is intended to be shared with other instructors via the assignment editor. Once vetted by the Expert TA team, these rating values (1 to 5 Stars) and review comments will be visible for each problem as other instructors create assignments. Please do NOT use “Rate and Review” to report errors, misspelled words, etc. Errors like that should be communicated via the “Report an Issue” feature.
- **Report an Issue:** If there is an error in a problem, please use this option as a way to report that error to us to be corrected. You can also contact your account manager with this issue if the issue has affected your students and immediate attention is required.

Assignment Security Options

Expert TA provides two security options for assignments that can be used together or separately, password protection and IP filtering. To access the assignment security area, click the **Security** button on the far right of the top row in the **Assignment Edit/Create** window (Figure 73).

Figure 73: Security Button

The screenshot shows the 'Physics Demo' assignment edit window. At the top, there are navigation links: 'Class Management | Instructor | Help'. Below this, a row of buttons includes 'Save Only', 'Save And Exit', 'Undo Changes', 'Delete Assignment', 'Printable Assignment', 'View Solutions', 'Extensions', and 'Security'. The 'Security' button is highlighted with a pink box. Below the buttons, there are input fields for 'Assign. Name:' (HW1), 'Weight:' (1), 'Grade Template:' (Instructor Default), 'Description:' (HW1), and 'Integrity Temp.:' (Instructor Default). On the right, there is a 'Publish Date' section with a date of '05/01/2021' and a time of '12:01 AM'. A help link is visible in the top right corner.

When you click on the **Security** button, a pop-up window will appear with an **Add New Access Filter** button (Figure 74).

Figure 74: Add New Access Filter

The screenshot shows the 'HW1 - Assignment Access' window. It features a table with columns for '#', 'IP Filter', and 'Password'. The table is currently empty, displaying 'No data to display'. Below the table, there is a button labeled 'Add New Access Filter' highlighted with a pink box. A pink callout box points to this button with the text: 'Click on "Add New Access Filter" to begin adding a new filter for the assignment'. Below the table, there is a note: 'Note: Only one of the columns can be empty per row. An empty column for IP filter is the same as all addresses. Example: IPFilter = "" and Password = "AllAccessP455" All students from any location can continue that enter "AllAccessP455". Example: IPFilter = "192.168." and Password = "PassW0rd!2016" Only students with ip addresses like "192.168.100.100" that enter "PassW0rd!2016" can continue.'

After you click on the **Add New Access Filter** button, the window will display two fields **IP Filter** and **Password** (Figure 75). These options can be used separately or together by simply filling in one or both fields and clicking on **Update** to save your settings or **Cancel** to discard the settings.

Figure 75: Access Filter

The screenshot shows the 'HW1 - Assignment Access' window with the 'IP Filter' and 'Password' fields filled in. The 'IP Filter' field contains '10.9' and the 'Password' field contains '\$ecurity1s!mp0rtant!'. A yellow callout box points to the 'IP Filter' field with the text: 'Enter the first two numbers of the IP address you want to restrict the assignment to or enter a password for your assignment. These options can be used separately or together.' A pink callout box points to the 'Update' button with the text: 'When you're finished entering your IP Filter and/or Password, click on Update to save your changes or Cancel to exit without saving.' The 'Update' and 'Cancel' buttons are highlighted with a pink box. Below the fields, there is a note: 'Note: Only one of the columns can be empty per row. An empty column for IP filter is the same as all addresses. Example: IPFilter = "" and Password = "AllAccessP455" All students from any location can continue that enter "AllAccessP455". Example: IPFilter = "192.168." and Password = "PassW0rd!2016" Only students with ip addresses like "192.168.100.100" that enter "PassW0rd!2016" can continue.'


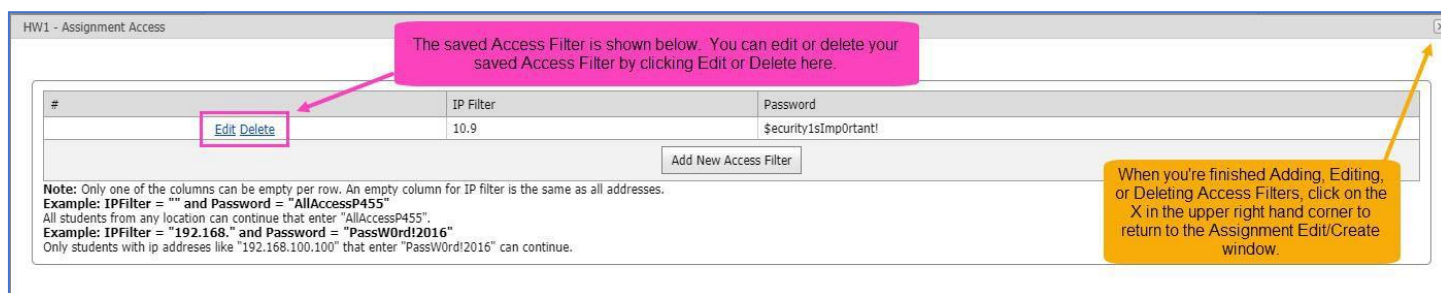
After clicking on **Update**, you will see the filter settings listed. You can edit the filter by clicking on **Edit** or delete the filter by clicking **Delete**. When you are finished click on the  in the upper right-hand corner to return to the **Edit/Create Assignment** window.

Figure 76: Completed Access Filter



The saved Access Filter is shown below. You can edit or delete your saved Access Filter by clicking Edit or Delete here.

#	IP Filter	Password
Edit Delete	10.9	SecurityIsImportant!

Add New Access Filter

Note: Only one of the columns can be empty per row. An empty column for IP filter is the same as all addresses.
Example: IPFilter = "" and Password = "AllAccessP455"
 All students from any location can continue that enter "AllAccessP455".
Example: IPFilter = "192.168." and Password = "PassWOrd12016"
 Only students with ip addresses like "192.168.100.100" that enter "PassWOrd12016" can continue.

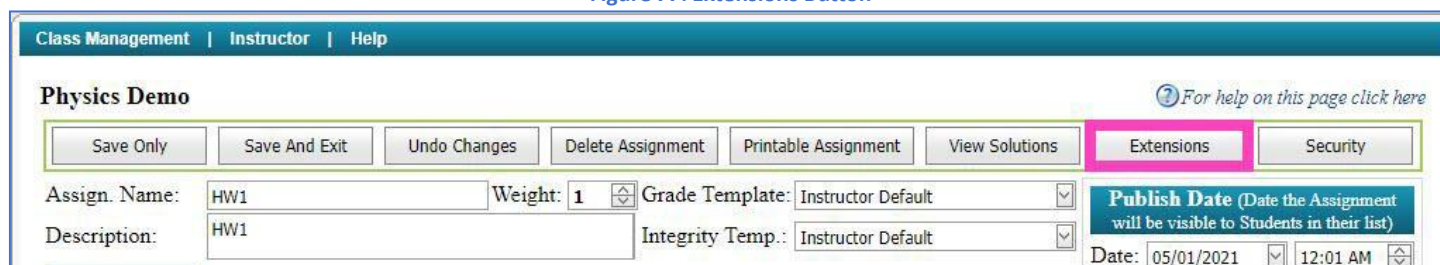
When you're finished Adding, Editing, or Deleting Access Filters, click on the X in the upper right hand corner to return to the Assignment Edit/Create window.

Managing Extensions for a Student

An assignment can be extended by changing the **Due Date** on the **Assignment Edit/Create** screen if no students have submitted answers for that assignment. Once a student has submitted answers to the assignment, you will need to add an extension for each student that needs additional time to complete the assignment.

To add or manage extensions for a student click on the **Extensions** button on the **Assignment Edit/Create** screen (Figure 77).

Figure 77: Extensions Button



Class Management | Instructor | Help

Physics Demo For help on this page click here

Save Only Save And Exit Undo Changes Delete Assignment Printable Assignment View Solutions **Extensions** Security

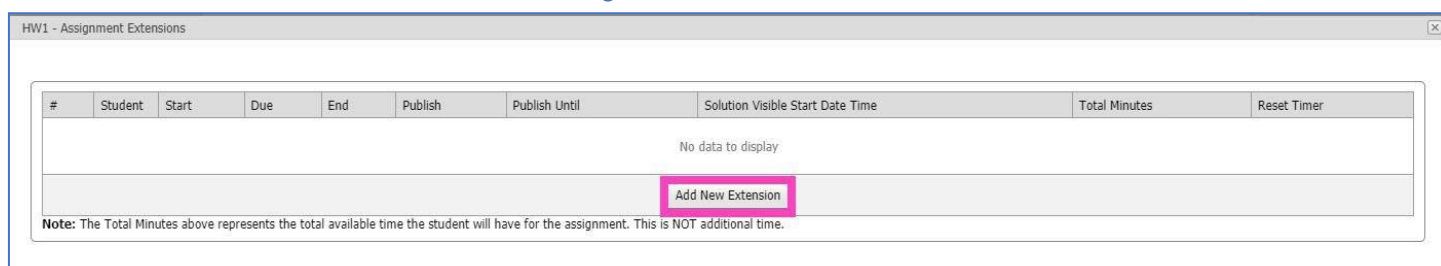
Assign. Name: HW1 Weight: 1 Grade Template: Instructor Default

Description: HW1 Integrity Temp.: Instructor Default

Publish Date (Date the Assignment will be visible to Students in their list)
 Date: 05/01/2021 12:01 AM

When you click on the **Extensions** button a pop-up window will appear, like the one in Figure 78. Click on **Add New Extension** to begin adding an extension.

Figure 78: Add New Extension



#	Student	Start	Due	End	Publish	Publish Until	Solution Visible Start Date Time	Total Minutes	Reset Timer
No data to display									

Add New Extension

Note: The Total Minutes above represents the total available time the student will have for the assignment. This is NOT additional time.

After clicking on the **Add New Extension**, the window will change to allow you to enter an extension (**Figure 79**).

Figure 79: Enter an Extension

1. First, select the student's name by using the drop-down or by typing in the field (**Figure 80**).

Figure 80: Select the Student

2. Next, change the assignment dates as needed by typing in the box or using the drop-down (**Figure 82**). The drop-down will produce a calendar to help you in your date selection (**Figure 81**).

Figure 81: Date Selection Calendar

Figure 82: Change the Dates

HW1 - Assignment Extensions

#	Student	Start	Due	End	Publish	Publish Until	Solution Visible Start Date Time	Total Minutes	Reset Timer
<p>Student</p> <p>Student:* <input type="text" value="Baggins, Frodo - frodo@lotr.com"/></p> <p>Primary Assignment Dates</p> <p>Start Date Time:* <input type="text" value="7/31/2021 12:01 AM"/> Due Date Time:* <input type="text" value="8/6/2021 11:59 PM"/></p> <p>End Date Time:* <input type="text" value="8/6/2021 11:59 PM"/></p> <p>Assignment Visibility</p> <p>Publish visible to student on:* <input type="text" value="5/1/2021 12:01 AM"/> Publish Until (View previous work until):* <input type="text" value="8/31/2021 12:00 AM"/></p> <p>Solution Visible Start Date Time: <input type="text"/></p> <p><small>This date is only active when 'Students can View Solutions' check box on Assignment Editor page is checked.</small></p> <p>Timed Assignments</p> <p><small>You can override the amount of time allowed for a timed assignment. Put in the total time, NOT the additional time. Leave blank if you want to use the default time specified below. NOTE: See Manage Roster for any disability settings.</small></p> <p>Total Minutes: <input type="text"/></p> <p>Update Cancel</p> <p>Note: The Total Minutes above represents the total available time the student will have for the assignment. This is NOT additional time.</p>									

3. If the assignment is timed, you can adjust the total minutes allowed under **Timed Assignments** (Figure 83).

Note: This represents the total amount of time available to the student for the assignment. This is not additional time.

4. Lastly, to save your settings click **Update** or click **Cancel** to exit without saving.

Figure 83: Complete Extension

HW1 - Assignment Extensions

#	Student	Start	Due	End	Publish	Publish Until	Solution Visible Start Date Time	Total Minutes	Reset Timer
<p>Student</p> <p>Student:* <input type="text" value="Baggins, Frodo - frodo@lotr.com"/></p> <p>Primary Assignment Dates</p> <p>Start Date Time:* <input type="text" value="7/31/2021 12:01 AM"/> Due Date Time:* <input type="text" value="8/6/2021 11:59 PM"/></p> <p>End Date Time:* <input type="text" value="8/6/2021 11:59 PM"/></p> <p>Assignment Visibility</p> <p>Publish visible to student on:* <input type="text" value="5/1/2021 12:01 AM"/> Publish Until (View previous work until):* <input type="text" value="8/31/2021 12:00 AM"/></p> <p>Solution Visible Start Date Time: <input type="text"/></p> <p><small>This date is only active when 'Students can View Solutions' check box on Assignment Editor page is checked.</small></p> <p>Timed Assignments</p> <p><small>You can override the amount of time allowed for a timed assignment. Put in the total time, NOT the additional time. Leave blank if you want to use the default time specified below. NOTE: See Manage Roster for any disability settings.</small></p> <p>Total Minutes: <input type="text"/></p> <p>Update Cancel</p> <p>Note: The Total Minutes above represents the total available time the student will have for the assignment. This is NOT additional time.</p>									


After clicking on **Update**, you will return to the **Add New Extension** screen but now you will see the extension settings displayed (**Figure 84**). When you are finished click on the  in the upper right-hand corner to return to the **Assignment Edit/Create** screen.

Figure 84: Extension Screen

#	Student	Start	Due	End	Publish	Publish Until	Solution Visible Start Date Time	Total Minutes	Reset Timer
1	Baggins, Frodo frodo@lotr.com	08/31/2021 12:01AM	09/17/2021 11:59PM	09/20/2021 11:59PM	05/01/2021 12:01AM	09/30/2021 12:00AM		120	Reset

Note: The Total Minutes above represents the total available time the student will have for the assignment. This is NOT additional time.

- A. **Edit** – Allows you to edit an extension
- B. **Delete** – This will delete the extension permanently
- C. **Reset** – This will reset the timer for the extension.

You can also create an extension for a student from the manual grading screen of the assignment. To access the manual grading screen, click on the arrow next to the assignment or right click the assignment and then select **Manage Grades (Grade Manually)** (see **Figure 85**).

Figure 85: Manage Grades (Grade Manually)

Select the student's name from the leftmost column and then click **Create** (see **Figure 86**).

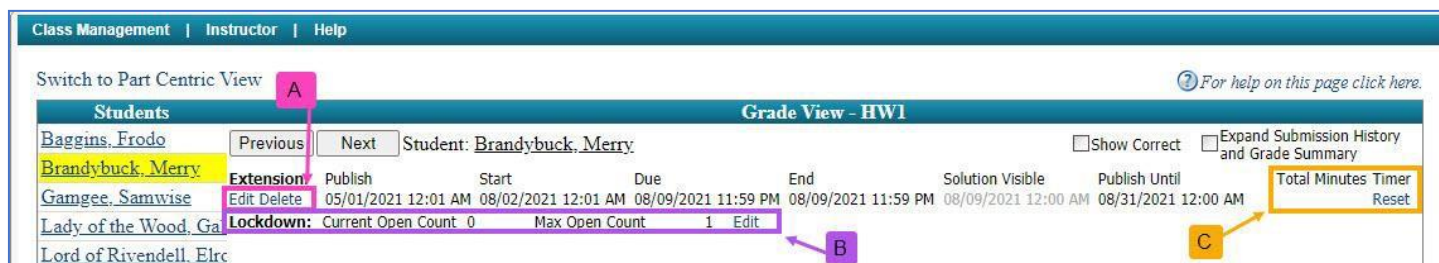
Figure 86: Create an Extension in Manual Grading screen of an Assignment

Figure 87: Add an Extension from the Manual Grading screen

Once you click **Create**, a pop-up window will appear that will allow you to create an extension (**Figure 87**), similarly to how it is done through the **Edit/Create Assignment** screen. Make any date and/or time adjustments and click **Save** to save the extension or **Cancel** to return to the manual grading screen without saving.

After the extension is saved, you will see the details of the extension from the **Manual Grading** screen (see **Figure 88**).

Figure 88: Editing an Extension in the Manual Grading screen



- Click **Edit** to update the extension or **Delete** to remove the extension
- The **Lockdown** area is only available if the assignment template has the **Respondus Lockdown Browser** enabled. It shows how many times the student has opened the assignment and how many times the assignment is allowed to be opened. The **Max Open Count** can be adjusted for the individual student by clicking on **Edit** here. See [Respondus Lockdown Browser](#) for more information on this feature.
- The **Total Minutes Timer** is only visible when a timer has been set on the assignment (see [Timing an Assignment](#)). The **Reset** will reset the assignment timer for the student. After clicking on **Reset**, you will see a pop-up message to confirm that you want to reset the student timer ([Figure 89](#)). Click **OK** to reset the timer or **Cancel** to return to the **Manual Grading** screen. If you click **OK**, you will see a pop-up message confirming the timer was reset.

Figure 89: Reset Timer Pop-Up Messages



Assignment and Problem Level Notifications

(New Feature Fall 2022) This feature allows you to send messages to your class that displays at the time they open an assignment or view a specific problem included in the assignments. While taking an assignment, students will see the main Assignment message at the top of the Take Assignment area and problem messages will show in Pop-ups as they access each problem.

Please watch the following in-depth video for a detailed tour of this new functionality.

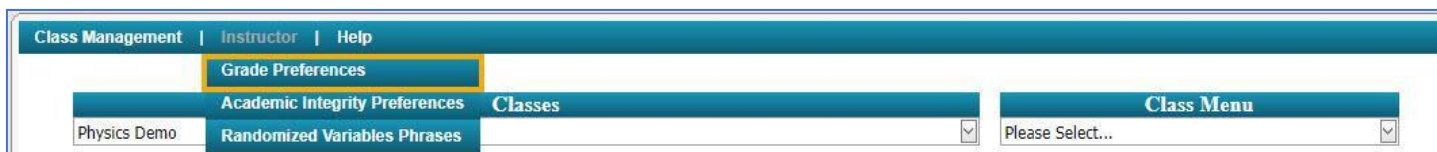
[Assignment and Problem Level Notifications Overview Video](#)

Grade Preference Templates

Warning: Grade templates are not assignment specific. Making changes to a grade template will apply the change to every assignment the template is assigned to. It is **NOT** recommended that you change grade templates or modify a grade template on an active assignment (between the start date and due date when students can enter answers to problems) because it can cause unexpected results. If you wish to modify a grade template for a specific assignment, it is recommended that you create a new grading template and apply it to the assignment before the start date.

The **Grade Preferences** area can be found by hovering over **Instructor** in the blue bar at the top of the screen (Figure 90).

Figure 90: Grade Preferences



After clicking on Grade Preferences, you will be presented with the screen in Figure 91.

Figure 91: Grade Preferences Screen

Class Management | Instructor | Help

Grade Preference Templates

- Instructor Default
- Homework
- Quizzes
- Exams

Please Select...

Instructor Default Template

Grade Preferences for the Following question types: Equations, Numeric, Multiple Select

Submission Attempts

Number of allowed Submission Attempts: 10 (number of attempts) Range: 1 to 999

Deduction for each Incorrect Submission Attempt: 1 (% of part value) Range: 0 to 100

Hints and Feedback

Students are allowed to access Hints? ☒ Yes ☐ No

Deduction for each accessed Hint: 1 (% of part value) Range: 0 to 100

Students are allowed to access Feedback? ☒ Yes ☐ No

Deduction for each accessed Feedback: 1 (% of part value) Range: 0 to 100

Access to Correct Answer

The student is shown the correct answer if all Submission Attempts are used, or the student selects the "I Give Up!" button.

Students are allowed to access the Correct Answer? ☒ Yes ☐ No

Deduction for accessing Correct Answer: 100 (% of part value) Range: 0 to 100

Show full solution during assignment? ☐ Yes ☒ No

Numeric Answer Tolerance

These settings are related to the grading of numeric answers, including algorithmic answers that depend on random values. The system-wide default tolerance value is 0.03, which is equivalent to $\pm 3\%$.

Note: Some problems have custom tolerances. The override here does not affect questions that have custom tolerances. The override only affects questions that have the system-wide default tolerance.

Override default tolerance? ☐ Yes ☒ No

Default tolerance value: 0.03 (Note: A value of 0.07 is equivalent to $\pm 7\%$)

Late Work

Start % for Late Work: 50 (% of part value) Range: 0 to 100

Floor % for Late Work: 0 (% of part value) Range: 0 to 100

Rate of Decrease in Percentage: 0 % decrease/Per Day

Randomization

Randomize Variables? ☒ Yes ☐ No

Randomize Phrases? ☐ Yes ☒ No

Partial Credit

Final Answer Partial Credit Allowed? ☒ Yes ☐ No

Access to Printable Assignment

Are students able to access a printable version of the assignment? ☒ Yes ☐ No

Free Body Diagram

Use proportionality when grading ☐ Yes ☒ No

Indicate if Submission is Correct

Students will be notified if the answer is "correct" or "incorrect". If "No" is selected, the student will only be told that their answer has been successfully submitted. (NOTE: If you select a setting of "No" here, you should **very carefully** consider both the settings for "Access to Correct Answer" and "Students are allowed to access Feedback". If you are unsure, please feel free to contact your account manager or contact us at main@theexpertta.com.)

Has access to see if the answer submitted is correct ☒ Yes ☐ No

Default Manual Grade

Set the default grade value given for submissions to a manually graded question types.

Default Manual Grade Value: 100 (% of part value) Range: 0 to 100

Respondus Lockdown Browser

Set the requirement to utilize the lockdown browser while taking the assignment.

Is Required? ☐ Yes ☒ No

Max times to open an assignment allowed: 5

Save Preferences

Grade Schema for Multiple Choice

For multiple choice questions (where N choices are available), the number of attempts students are given is the number of choices minus one (N-1). The deduction for each incorrect submission is equal to $\%deduction = 100/(N-1)$.

Note: If the deduction for incorrect submissions in the table above is equal to 0, the deduction amount for multiple choice incorrect submissions will also be set to 0. In this case the number of submission attempts is also changed and is equal to the 'Number of Allowed Submission Attempts' specified in the table above.

Grade Schema for True/False

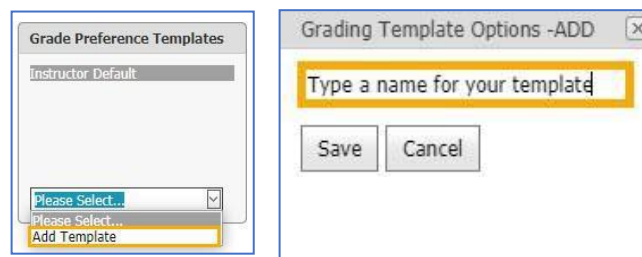
For True/False questions students are given one attempt and deduction amount for an incorrect answer is 100%.

Note: If the deduction for incorrect submissions in the table above is equal to 0, the deduction amount for true/false incorrect submissions will also be set to 0. In this case the number of submission attempts is also changed and is equal to 2.

On the left side of the **Grade Preferences** screen is the **Grade Preference Templates** panel. This is where you can create grade preference templates for different grading needs (example: quizzes, homework, and exams).

Figure 92: Add a Template

To create a new **Grade Preference Template**, click on the drop-down menu under **Grade Preference Templates** and select **Add Template** (Figure 92). Next, a pop-up window will appear where you will enter a name for the new grade template and click **Save** to add it to your **Grade Preference Templates**. Click **Cancel** to return to the **Grade Preference** screen without creating a template.



After you have saved the new template name, you will click on that name in the **Grade Preference Template** panel to edit your preferences. Below is a description of the available preferences and their functions in the order they appear.

Submission Attempts

This is the number of times the student is allowed to submit incorrect answers to problems on their assignment and their deduction for each incorrect submission (Figure 93). The range for the submission attempts is 1-999 and the range for the deduction for each incorrect submission is 0-100. Both can be adjusted by typing a number in the field or by using the up/down arrows.

Figure 93: Submission Attempts

Submission Attempts	
Number of allowed Submission Attempts	3 (number of attempts) Range: 1 to 999
Deduction for each Incorrect Submission Attempt	4 (% of part value) Range: 0 to 100

The student will see their **Attempts remaining** and their **Deductions** per attempt to the far right in the answer section of their assignment (Figure 94). The **Attempts remaining** count down for each incorrect submission. The **Grade Summary** at the top shows the student their potential score after the submission deductions and any hints and/or feedback accessed.

Figure 94: Submission Attempts Student View

50% Part (a) Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.

cells/hummingbird =

sin()	cos()	tan()	π	()	7	8	9	HOME
cotan()	asin()	acos()	E	\sqrt{x}	4	5	6	\leftarrow
atan()	acotan()	sinh()		/	*	1	2	3
cosh()	tanh()	cotanh()		+	-	0	.	END
<input checked="" type="radio"/> Degrees <input type="radio"/> Radians			\sqrt{x}	BACKSPACE	DEL	CLEAR		

Submit Hint Feedback I give up!

Hints: 4% deduction per hint. Hints remaining: 2

Feedback: 5% deduction per feedback.

Grade Summary

Deductions 0%

Potential 100%

Submissions

Attempts remaining: 3

(4% per attempt)

[detailed view](#)

Grade Summary

Deductions 8%

Potential 92%

Submissions

Attempts remaining: 1

(4% per attempt)

[detailed view](#)

1	4%
2	4%

The student can see their attempts remaining and the deductions per attempt

Hints and Feedback

Hints and Feedback are not always available for every question, but you can allow the students to access one or both by clicking the **Yes** radio button or prevent them from being used by clicking the **No** radio button (Figure 95). If Hints and/or Feedback are allowed, you can also adjust the deduction for accessing a hint or feedback by typing 0-100 in the field or using the up/down arrows.

Figure 95: Hints and Feedback Setting

Hints and Feedback

Students are allowed to access Hints? ☒ Yes ☐ No

Deduction for each accessed Hint (% of part value) Range: 0 to 100

Students are allowed to access Feedback? ☒ Yes ☐ No

Deduction for each accessed Feedback (% of part value) Range: 0 to 100

If available and allowed, the student will see hints and feedback at the bottom of their answer window (Figure 96). The **Hints** window and the **Feedback** window also show the deduction for accessing them, so the student is aware before they use either option.

Figure 96: Hints and Feedback Student View

50% Part (a) What should be the value of the exponent n so that the formula $\pi x^n y^1$ represents a volume?

$n =$

sin()	cos()	tan()	π	(	)	7	8	9	HOME
cotan()	asin()	acos()	E	\uparrow	\wedge	4	5	6	\leftarrow
atan()	acotan()	sinh()		/	*	1	2	3	\rightarrow
cosh()	tanh()	cotanh()		+	-	0	.	END	
<input checked="" type="radio"/> Degrees <input type="radio"/> Radians			$\sqrt{}$	BACKSPACE	DEL	CLEAR			

Submit Hint Feedback I give up!

Hints: 1 for a 4% deduction. Hints remaining: 0

-Volume has dimensions of length cubed.

Feedback: 1 for a 5% deduction

The answer provided was not correct. We have recognized the following.

- Your answer appears to be off by a factor of 1/2.

Grade Summary

Deductions 13%

Potential 87%

Submissions

Attempts remaining: 2 (4% per attempt) [detailed view](#)

1	4%
---	----

Access to Correct Answer

These settings allow the student to see the correct answer and/or the full solution if all the **Submission Attempts** are used (see [Submission Attempts](#)) or if the student selects the **I give up!** button in a problem (Figure 97). These settings can be enabled by clicking the **Yes** radio button or disabled by clicking on the **No** radio button. The **Deduction for accessing the Correct Answer** is a deduction applied when the student uses the **I give up!** button for a problem and can be adjusted from 0-100 by typing in the field or using the up/down arrows.

Figure 97: Access to Correct Answer Setting

Access to Correct Answer

The student is shown the correct answer if all Submission Attempts are used, or the student selects the "I Give Up!" button.

Students are allowed to access the Correct Answer? ☒ Yes ☐ No

Deduction for accessing Correct Answer (% of part value) Range: 0 to 100

Show full solution during assignment? ☒ Yes ☐ No

If **Students are allowed to access the Correct Answer** setting is enabled, the students will see the correct answer shown after they have used all their submission attempts or they have clicked on the **I give up!** button in their assignment (Figure 98). If **show full solution during assignment** setting is enabled, the student will see a detailed explanation of how to solve the problem.

Figure 98: Access to Correct Answer Student View

50% Part (a) Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.

Grade = 0%

Correct Answer	Student Final Submission	Feedback
$\text{cells/hummingbird} = 1\text{E}+12$	$\text{cells/hummingbird} = 3$	

Grade Summary

Deduction for Final Submission	100%
Deductions for Incorrect Submissions, Hints and Feedback [?]	8%
Student Grade = 100 - 100 - 8 = 0%	

Detailed Explanation

As stated, the mass of an average cell is

$$m_c = 10m_b \text{ kg}$$

where m_b is the mass of a bacterium in kg. The number of cells in a hummingbird is

$$n_c = \frac{m_h}{m_c} = \frac{m_h}{10m_b}$$

where m_h is the mass of one hummingbird. Plugging in numbers and converting units as needed,

$$n_c = \frac{(10^{-2} \text{ kg})}{(10 \cdot 10^{-15} \text{ kg})}$$

$\text{cells/hummingbird} = 1000000000000$

If "Students are allowed to access the Correct Answer" is enabled the correct answer will be displayed here.

If "Show full solution during assignment" is enabled, the student will see a detailed explanation of how to solve the problem step by step.

Grade Preference Override of Tolerance for Numeric Answers

In the grade preferences area, you will now see a new section that lets you override the system default of $\pm 3\%$ for numeric answers. Here are some things to note regarding this feature.

The override will only apply to standard questions which are set to have the system default tolerance. Some questions require students to make estimates and therefore have a larger tolerance. Some questions require an exact, or more exact, answer and have a tighter tolerance. The override would not affect either of those cases.

If you want to make the tolerance different in general, for all questions in your assignment, you can use this Grade Preferences feature.

If you need to set a different tolerance for only a single question or select few, you will need to make a copy of the Problem, using the Problem Authoring area, and change the tolerance only for the questions that you want. If you don't have an authoring account yet please contact your account manager.

Late Work

If you want to accept late work, you will need to change the **End** date to a date after the **Due** date (see [Specify Assignment Availability Dates](#) for more information). Late work deduction percentages can be adjusted by typing a number from 0-100 in the field or by using the up/down arrows ([Figure 99](#)).

Figure 99: Late Work Deduction Settings

Late Work	
Start % for Late Work	50 (% of part value) Range: 0 to 100
Floor % for Late Work	0 (% of part value) Range: 0 to 100
Rate of Decrease in Percentage	0 % decrease Per Hour

Randomization

This setting helps prevent cheating by allowing you to search what randomized variable(s) and/or phrase(s) a student received on a problem in an assignment. To enable click on the **Yes** radio button or click on the **No** radio button to disable ([Figure 100](#)).

Figure 100: Randomization Setting

Randomization	
Randomize Variables?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Randomize Phrases?	<input checked="" type="radio"/> Yes <input type="radio"/> No

To use the search function when randomization is enabled, click on **Randomized Variables Phrases** under Instructor in the

Figure 101: Randomized Variables Phrases

Class Management | Instructor | Help		
	Grade Preferences	
	Academic Integrity Preferences	Classes
Physics Demo	Randomized Variables Phrases	Class Menu
		Please Select...

blue bar at the top of the screen ([Figure 101](#)).

On the next screen you will use the drop-down menus to select your **Classes**, **Assignments**, and **Problems** ([Figure 102](#)).

Figure 102: Randomized Variable Phrases Search Screen

Class Management | Instructor | Help		
Classes	Assignments	Problems
Physics Demo		
Randomized Variables Phrases Assigned Students		

When you have made your selections from the drop-down boxes, the main problem statement will be visible with any random variables from the assignment. Type the random variable(s) you are searching for in the field(s) and then click Search to begin the search (**Figure 103**).

Figure 103: Randomized Variable Search

Class Management | Instructor | Help

Classes: Physics Demo | Assignments: HW1 | Problems: 1.1.10

Alg, 3
The masses in this problem are given in units of grams (g), utilizing a metric prefix. Give the masses in kilograms (kg). For example, the metric prefix M (mega) stands for $\times 10^6$, so 40 Mg is equal to $4.0 \times 10^4 \text{ kg}$.

a. 12 mg
b. 563 Tg
c. 32 ng
d. 4.6 g
e. 2.4 Pg

a = 28 b = 654 c = d = e = Search

This problem had parts a-e. Type in a value to one, or more, variables and then click Search

Randomized Variables Phrases Assigned Students

Search results will be displayed at the bottom (**Figure 104**). The more variables you can search at a time, the narrower your results will be. As you can see from the example below, you can see the Instructor, Class, Assignment, Student, and all Variables in their assignment problem. When you are finished with this search, click on **Class Management** in the upper left-hand corner to return to the **Class Management** screen.

Figure 104: Randomized Variable Search Results

Class Management | Instructor | Help

Classes: Physics Demo | Assignments: HW1 | Problems: 1.1.10

Alg, 3
The masses in this problem are given in units of grams (g), utilizing a metric prefix. Give the masses in kilograms (kg). For example, the metric prefix M (mega) stands for $\times 10^6$, so 40 Mg is equal to $4.0 \times 10^4 \text{ kg}$.

a. 12 mg
b. 563 Tg
c. 32 ng
d. 4.6 g
e. 2.4 Pg

a = 28 b = 654 c = d = e = Search

Instructor	Class	Assignment	Student	Variables
harmony@instructor.com	Physics Demo	HW1	samwise@lotr.com	a=28, b=654, c=58, d=5.2, e=2.9

Search results are displayed here. The more random variables you have to search with the narrower your results will be.

Partial Credit

Occasionally an equation can offer partial credit for answers that are close to the correct answer or for common mistakes (**Figure 105**). To enable this feature click on the **Yes** radio button or click on the **No** radio button to disable the feature.

Figure 105: Partial Credit Setting

Partial Credit	
Final Answer Partial Credit Allowed?	<input checked="" type="radio"/> Yes <input type="radio"/> No

Access to Printable Assignment

Enables students to have a printable version of their assignment (see [View Printable Assignment](#) for more details). To enable this setting click on the **Yes** radio button or click on the **No** radio button to disable this setting ([Figure 106](#)).

Figure 106: Access to Printable Assignment Setting

Access to Printable Assignment	
Are students able to access a printable version of the assignment?	<input checked="" type="radio"/> Yes <input type="radio"/> No

Free Body Diagram

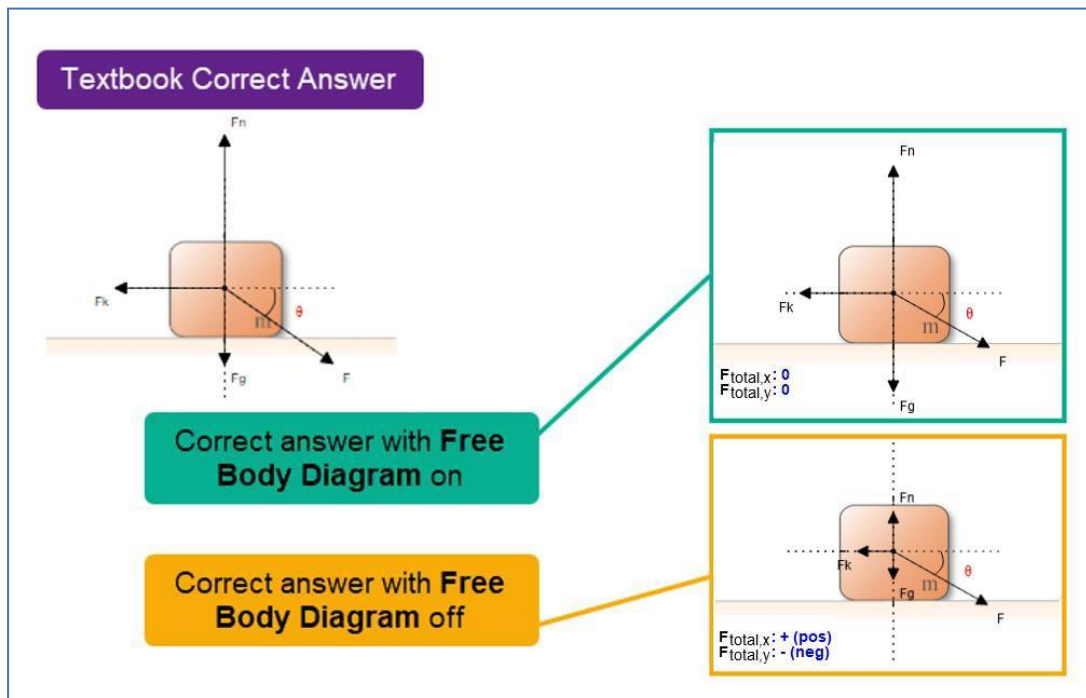
This setting only applies to Free Body Diagram problems. To enable click on the **Yes** radio button or click on **No** radio button to disable ([Figure 107](#)).

Figure 107: Free Body Diagram Setting

Free Body Diagram	
Use proportionality when grading	<input checked="" type="radio"/> Yes <input type="radio"/> No

If this setting is enabled, the grading will incorporate the proportionality of the vectors. If this setting is disabled, the grading will just be based on the angles of the vectors ([Figure 108](#)).

Figure 108: Free Body Diagram Setting Example



Indicate if Submission is Correct

Warning: This setting can be complicated. Please read this section carefully before selecting **Yes** or **No**.

Figure 109: Indicate if Submission is Correct Setting

Indicate if Submission is Correct

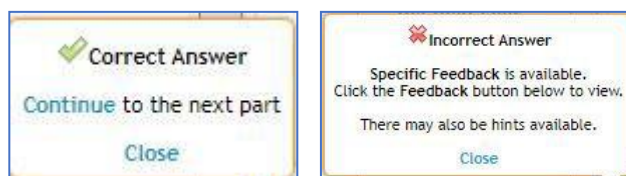
Students will be notified if the answer is "correct" or "incorrect". If "No" is selected, the student will only be told that their answer has been successfully submitted. (NOTE: If you select a setting of "No" here, you should **very carefully** consider both the settings for "Access to Correct Answer" and "Students are allowed to access Feedback". If you are unsure, please feel free to contact your account manager or contact us at main@theexpertta.com)

Has access to see if the answer submitted is correct ☒ Yes ☐ No

As the setting indicates, [Access to Correct Answer](#) settings are related to this setting. This is explained in more detail below.

Figure 110: Correct and Incorrect Notification

To enable this setting, click on the Yes radio button. When enabled, the student will be notified if the answer submitted is "correct" or "incorrect" (Figure 110).



If the **Students are allowed to access the Correct Answer** setting is disabled (Figure 97) while this setting is enabled, when the student uses all of their allotted attempts, they will see a note that the correct answer is "*not available until the end date*" in place of the correct answer (Figure 111). However, the correct answer will not be displayed after the end date as the message states because the **Students are allowed to access the Correct Answer** setting is disabled.

Figure 111: Correct Answer Not Available

✖ 25% Part (a) What is 4.1×10^{-5} kg in units of mg?

Grade = 0%

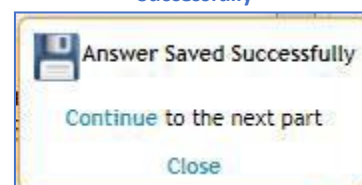
Correct Answer	Student Final Submission	Feedback
Not available until end date	mass in mg = 2	

Grade Summary

Deduction for Final Submission	100%
Deductions for Incorrect Submissions, Hints and Feedback: [?]	0%
Student Grade = 100 - 100 - 0 = 0%	

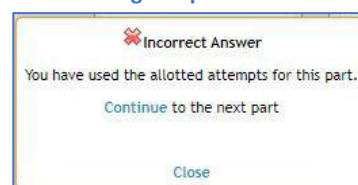
Figure 112: Answer Saved Successfully

To disable this setting, click on the **No** radio button. If this setting is disabled, the student will only be notified that their answer has been successfully submitted (Error! Reference source not found.). The submitted answers are graded all at once after the due date for the assignment has passed. The student can also continue entering answers until they have used all their submission attempts, but only the last answer submitted is graded.



If the **Students are allowed to access the Correct Answer** setting is enabled (see [Access to Correct Answer](#)) while this setting is disabled, the student will not see the correct answer after the submission attempts are used. If the student clicks the **I give up!** button, they will see a notification that the answer is incorrect, and they have used the allotted attempts for the part. If **Show full solution during assignment** (see [Access to Correct Answer](#)) is enabled while this setting is disabled, the full solution will be displayed when the allotted attempts are used but not when the **I give up!** button is used.

Figure 113: Incorrect Answer when "I give up!" Used



Default Manual Grade

This setting, [Figure 114](#), allows you to enter the default grade for submissions to manually graded questions (like essay and short answer questions). Type a range between 0 and 100 in the field or use the up/down arrows to adjust.

Figure 114: Default Manual Grade Setting

Default Manual Grade

Set the default grade value given for submissions to a manually graded question types.

Default Manual Grade Value (% of part value) Range: 0 to 100

Respondus Lockdown Browser

This setting will set the requirement to utilize the lockdown browser while taking the assignment ([Figure 115](#)). To enable click on the **Yes** radio button and to disable click on the **No** radio button. If you enable this setting, you will also need to adjust the **Max times to open an assignment** setting by typing a number between 1 and 100 in the field or using the up/down arrows to adjust.

Figure 115: Respondus Lockdown Browser Setting

Respondus Lockdown Browser

Set the requirement to utilize the lockdown browser while taking the assignment.

Is Required? ☒ Yes ☐ No

Max times to open an assignment allowed

Note: Please keep in mind that unstable network connections and unexpected website freezing can force the student to re-enter the assignment. If the **Max times to open an assignment** is set too low, the students could potentially hit their Max times to open through no fault of their own. Students will be directed to you to either grant them additional **Max times to open an assignment** or not.

If a student exceeds the **Max times to open in an assignment**, you can add additional attempts by clicking on the assignment and choosing **Manage Grades (Grade Manually)** from the assignment menu. Once you are in the **Manual Grading** screen, click on the student's name on the left-hand side and then click **Edit** to the right of **Max Open Count** as seen in [Figure 116](#)).

Figure 116: Edit Lockdown Max Open Count

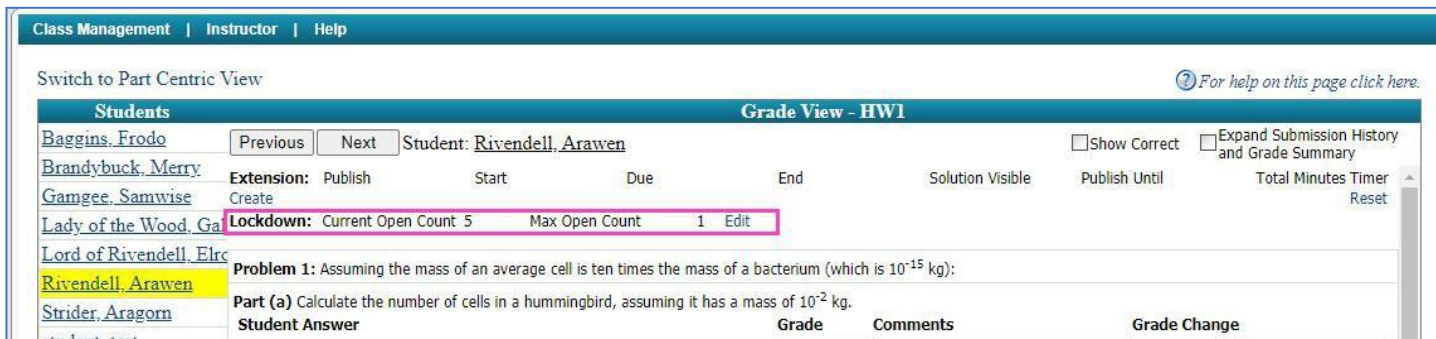


Figure 117: Edit Max Open Count

After clicking **Edit**, you will see a new pop-up screen ([Figure 117](#)). Add extra open attempts to the **Max Open Count** by typing a number in the field or use the up arrow. When you're finished click on the **Save** button to save your changes or click **Cancel** to return to the **Manual Grading** screen.

After clicking **Save**, you will return to the **Manual Grading** screen. In ([Figure 118](#)), you can see that the **Max Open Count** has changed from 1 to 8.

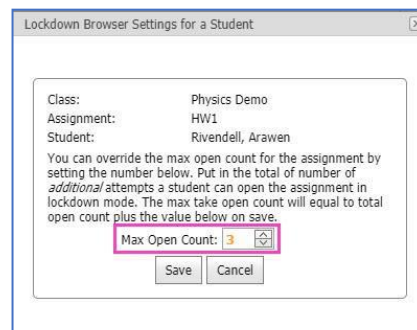
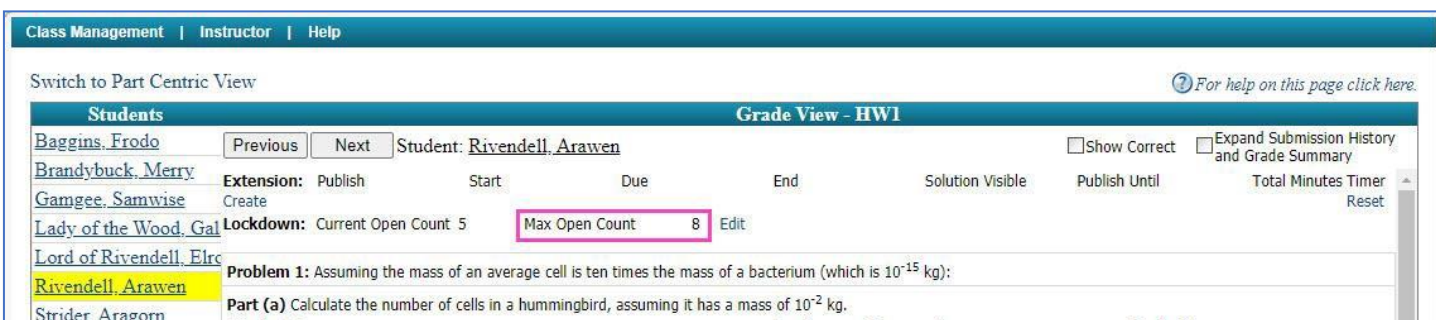
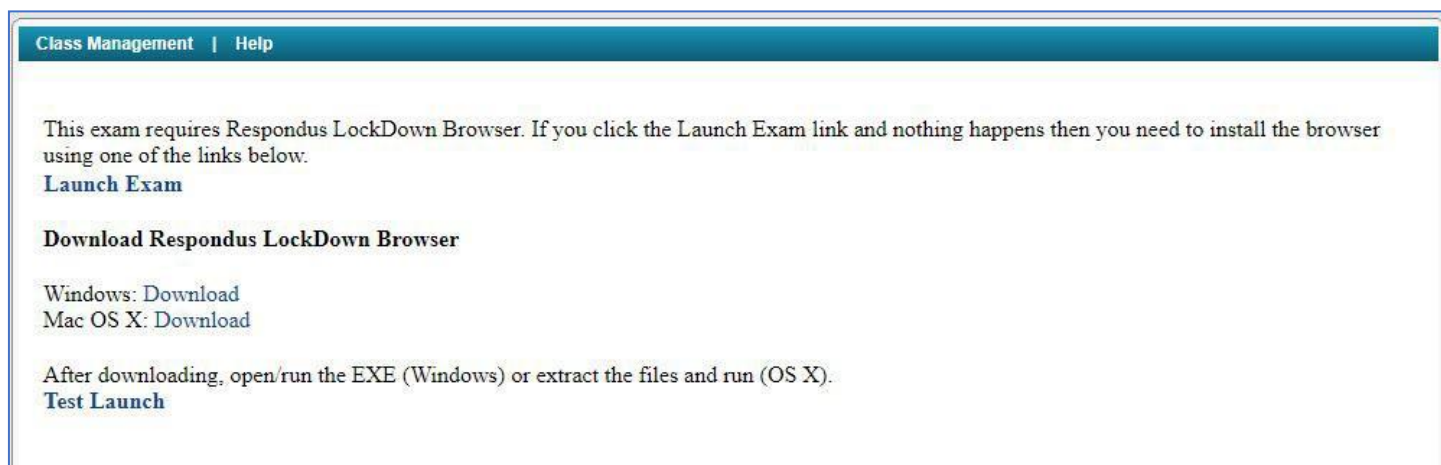


Figure 118: Edit Max Open Count Completed



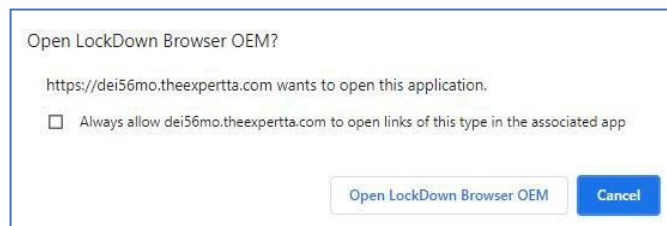
When the student opens an assignment with the Respondus Lockdown Browser enabled, they will see a window like the one in [Figure 119](#). From this window, the student can **Download Respondus Lockdown Browser** software, perform a **Test Launch** to ensure the lockdown browser works properly before opening the assignment, and lastly, they can open their assignment using the lockdown browser by clicking on **Launch Exam**.

Figure 119: Respondus Lockdown Browser screen



When the student clicks on **Launch Exam**, they will receive one final notification asking if they want to open Lockdown Browser OEM (Figure 120). The student can click on the checkbox to “always allow” before clicking on **Open LockDown Browser OEM** to continue to their assignment or the student can click on **Cancel** to return to the **Respondus Lockdown Browser** screen (Figure 119).

Figure 120: Open Lockdown Browser Notification



For more information on the Respondus Lockdown Browser and how to use it see the [Expert TA: Respondus Lockdown Browser User Manual](#).

Update (Fall 2022 Important Requirements)

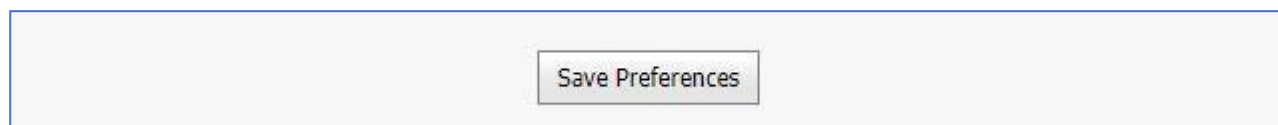
Minimum Version Level now required. Important – If you use the Respondus browser for exams/quizzes, please read carefully and prepare accordingly. This version changes over time based on releases that are done by Respondus. Until communicated otherwise our strategy will be to require a version no later than two versions back from the current version that Respondus offers.

Recommendation – Offer a practice exam for your students that uses the Respondus LockDown browser, at least a few days prior to the actual exam date. The students will be prompted to download the required version, and will be provided with a link to the appropriate download. This will ensure that things go smoothly for each student on the day of the actual exam.

Saving the Grade Preference Template

When you have made all the changes you want to your grading template, click on the **Save Preferences** button at the bottom of the page (Figure 121). Click on **Class Management**, in the blue bar at the top of the page, to return to the **Class Management** screen.

Figure 121: Save Preferences



Changing the Grade Preference Template in an Assignment

After you have saved your new **Grade Preference Template**, the next step is to add that template to your assignment. To do this, start by editing your assignment (see [Editing an Assignment](#)) and then select the grade template by clicking on the drop-down box next to **Grade Template** (see [Figure 122](#)).

Figure 122: Selecting the Grade Template in an Assignment

 The screenshot shows the Blackboard assignment editor for an assignment titled "Physics Demo". At the top, there are navigation links: "Class Management", "Instructor", and "Help". Below these are several action buttons: "Save Only", "Save And Exit", "Undo Changes", "Delete Assignment", "Printable Assignment", "View Solutions", "Extensions", and "Security". The main form contains fields for "Assign. Name:" (HW1), "Weight:" (1), "Grade Template:" (a dropdown menu currently showing "Exams"), and "Description:" (HW1). Below the "Grade Template:" dropdown is a list of options: "Instructor Default", "Homework", "Quizzes", "Exams", and "Custom". To the right of the "Grade Template:" dropdown is a "Publish Date" section with a date of "05/01/2021" and a time of "12:01 AM". Below the "Grade Template:" dropdown is a table with columns "Prob #", "Weight", and "Problems". The table has one row with "Prob 1", "1", and "1.1.7 x". At the bottom right, there is an "Assignment Dates" section with a "Start" date of "07/31/2021" and a time of "12:01 AM".

Custom Grade Template

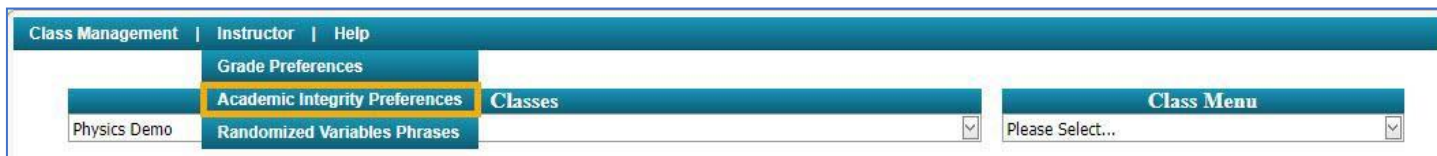
In [Figure 122](#) above, you will notice that there is a Custom option in the Grade Template drop-down menu. The Custom grade template has all the same settings described in [Grade Preference Templates](#), but the settings in a Custom template only apply to the assignment they are set on. This can be useful for a one-time use, but if find yourself using the same settings repeatedly, we recommend that you create Grade Preference Template to save yourself some time and effort.

Academic Integrity Preferences

Academic Integrity Preferences allow instructors to provide warnings and/or deterrents to prevent students from cheating on their assignments by posting images of their problems on internet sites.

To access the **Academic Integrity Preferences**, click on **Instructor** in the blue bar at the top of the page and then click on **Academic Integrity Preferences** (Figure 123).

Figure 123: Academic Integrity Preferences



On the next screen, you will see descriptions of the settings that can be enabled by clicking on the **Yes** radio button or disabled by clicking on the **No** radio button (Figure 124).

Figure 124: Academic Integrity Template Screen

Class Management | Instructor | Help

Academic Integrity Templates

Instructor Default

Please Select...

Instructor Default Template

Most instructors agree that students need to do the work themselves in order to master the material. Getting guidance or tutoring is helpful, getting answers from someone else, including the internet, is not helpful for students to learn the material. The following are steps that can be taken in order to reduce the behavior of students posting their problems to the internet.

Syllabus Recommendation

Amazingly, studies show that, many students simply do not view the act of getting a solution online as 'cheating'. They view it as getting help. Just as you could specify that a take-home test is supposed to be closed book and to be done individually, you can specify what resources should and should not be used as they do homework or tests in Expert TA.

Consider adding the following information about Expert TA's Terms of Service (TOS) to your syllabus as an additional warning to your students.

Expert TA Terms of Service: Expert TA problems are copyrighted. It is expressly forbidden in Expert TA's Terms of Service (TOS) for a student to post this copyrighted material. Violating the TOS can result in discontinuation of the student's Expert TA account.

"Academic Integrity" / "Honor Code" Policy Page

Every time the student opens an assignment, they can be presented with a "Class Policy" page that reminds them about which resources they should NOT use during the assignment. You can customize the message that the students see on this page. You can also choose to display a reminder about Expert TA's Terms of Service on this page as well.

☐ Yes
☒ No
Honor Code: I want to display the following text to students each time they open an assignment.

For this assignment, you are not allowed to post your problem to the internet to be solved and are not permitted to solicit answers to assignment problems from any source. It is against class policy to use any "answer sharing website" to search for the solutions to your homework problems.

☐ Yes
☒ No
Expert TA TOS: I want to display the following text to students each time they open an assignment.

Expert TA problems are copyrighted. It is expressly forbidden in Expert TA's Terms of Service (TOS) for a student to post this copyrighted material. Violating the TOS can result in the discontinuation of the student's Expert TA account.

In Assignment Deterrents

If the following measures are not enabled, students can post their problems to the internet with "some" anonymity. They can do that by taking a screen capture of their problem, or even by taking a picture of their screen with their phone, and posting the image. The following features are designed to impede that. With the student name and/or a tracking number displayed in problem area, students cannot simply take a picture and post. They would need to first open the picture in some editing software and remove these identifiable pieces of information.

☐ Yes
☒ No
Display student name in the problem statement area.

☐ Yes
☒ No
Display Tracking ID in the problem statement area.

Save Preferences

"Academic Integrity" / "Honor Code" Policy Page

Every time the student opens an assignment, they can be presented with a "Class Policy" page that reminds them about which resources they should NOT use during the assignment. The Honor Code and Expert TA TOS (Terms of Service) can be used alone, together, or not at all as needed ([Figure 125](#)).

Figure 125: Academic Integrity Messages

"Academic Integrity" / "Honor Code" Policy Page

Every time the student opens an assignment, they can be presented with a "Class Policy" page that reminds them about which resources they should NOT use during the assignment. You can customize the message that the students see on this page. You can also choose to display a reminder about Expert TA's Terms of Service on this page as well.

☐ Yes ☒ No **Honor Code:** I want to display the following text to students each time they open an assignment.

For this assignment, you are not allowed to post your problem to the internet to be solved and are not permitted to solicit answers to assignment problems from any source. It is against class policy to use any "answer sharing website" to search for the solutions to your homework problems.

☐ Yes ☒ No **Expert TA TOS:** I want to display the following text to students each time they open an assignment.

Expert TA problems are copyrighted. It is expressly forbidden in Expert TA's Terms of Service (TOS) for a student to post this copyrighted material. Violating the TOS can result in the discontinuation of the student's Expert TA account.

1. **Honor Code** – This message can be customized for your and/or the institution class policy needs by typing in the text box.
2. **Expert TA TOS** – This message cannot be customized but advises students that our material is copyrighted. Posting images of our copyrighted material is a violation of the Terms of Service the students agree to when they register for each class and can result in the discontinuation of the student's Expert TA account.

If either or both policies are enabled, the student will see them as they open their assignment (see [Figure 126](#)). The student will have to click on **Agree and Continue** to continue to their assignment or the student can click on **Back** to go back to the **Class Management** screen.

Figure 126: Student View of Selected Class Policies

Class Management | Help

Honor Code and Class Policies about this Assignment

For this assignment, you are not allowed to post your problem to the internet to be solved and are not permitted to solicit answers to assignment problems from any source. It is against class policy to use any "answer sharing website" to search for the solutions to your homework problems.

Expert TA's Terms - Related Terms

Expert TA problems are copyrighted. It is expressly forbidden in Expert TA's Terms of Service (TOS) for a student to post this copyrighted material. Violating the TOS can result in the discontinuation of the student's Expert TA account.

Back By continuing, you indicate that you understand and agree to adhere to these Policies and Terms during this assignment. Agree and Continue

In Assignment Deterrents

If the following settings are not enabled, students can post their problems on the internet with “some” anonymity by taking a screen capture of their problem or by taking a picture of their screen with their phone. With the student’s name and/or a tracking number displayed in the problem area, students would need to first open the screen capture image or picture in editing software to remove the identifiable information before posting on the internet. These settings can be used alone, together, or not at all as needed (Figure 127).

Figure 127: In Assignment Deterrents

In Assignment Deterrents

If the following measures are not enabled, students can post their problems to the internet with “some” anonymity. They can do that by taking a screen capture of their problem, or even by taking a picture of their screen with their phone, and posting the image. The following features are designed to impede that. With the student name and/or a tracking number displayed in problem area, students cannot simply take a picture and post. They would need to first open the picture in some editing software and remove these identifiable pieces of information.

☒ Yes ☐ No **Display student name in the problem statement area.**

☒ Yes ☐ No **Display Tracking ID in the problem statement area.**

In Figure 128 below, you can see what these settings will look like from the student’s perspective as they take the assignment. As you can see the name and tracking ID are in light grey.

Figure 128: Student View of Selected Deterrent Settings

Class Management | Help

HW1 Begin Date: 7/31/2021 12:01:00 AM -- Due Date: 8/6/2021 11:59:00 PM End Date: 8/13/2021 11:59:00 PM

(9%) Problem 10: In this problem, the symbols M, L, and T represent the dimensions mass, length, and time, respectively. Consider the physical quantities s , v , a , and t with dimensions $[s] = L$, $[v] = LT^{-1}$, $[a] = LT^{-2}$, and $[t] = T$. (Here, the square bracket means “the dimensions of” so, for example, $[s]$ represents the dimensions of the quantity s .)

Rivendell, Arawen - arawen@lotr.com

Student's name and email is displayed here

Tracking ID is displayed here along with a shortened version of Expert TA's Terms of Service

@theexpertta.com - tracking id: 6M79-E9-2D-43-AB05-15224. In accordance with Expert TA's Terms of Service, copying this information to any solutions sharing website is strictly forbidden. Doing so may result in termination of your Expert TA Account.

25% Part (a) What is the simplest expression involving only a and s that has the same dimensions as v^2 ?

expression =

β	γ	θ	(	)	7	8	9	HOME
a	d	g	\uparrow	\downarrow	4	5	6	\leftarrow
h	j	k	/	*	1	2	3	\rightarrow
m	n	P	+	-	0	.		END
s	t	v	$\sqrt{\quad}$	BACKSPACE	DEL	CLEAR		

Submit Hint Feedback I give up!

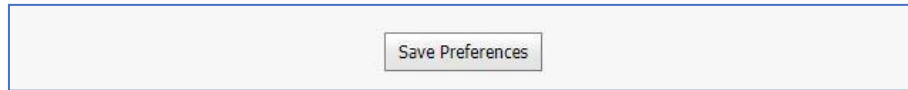
Grade Summary

Deductions 0%
Potential 100%
Late Work % 50%
Late Potential 50%

Submissions
Attempts remaining: 5
(4% per attempt)
[detailed view](#)

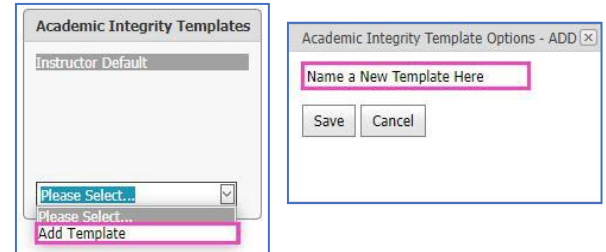
When you are finished selecting and editing settings, click on **Save Preferences** at the bottom of the screen (Figure 129).

Figure 129: Save Preferences



You can also create more than one Academic Integrity Template by clicking the drop-down in the **Academic Integrity Templates** and then clicking on **Add Template** (Figure 130). In the pop-up window, name your new template by typing in the field and then clicking **Save** to save your template name or click **Cancel** to return to the **Academic Integrity Template** screen.

Figure 130: Add an Academic Integrity Template

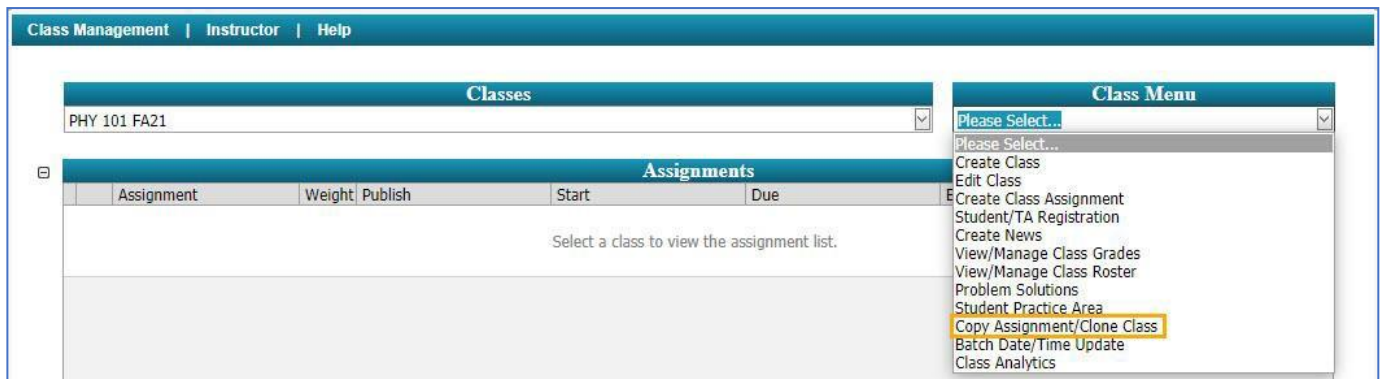


Copy Assignment/Clone Class

Expert TA offers a way to copy an assignment or clone a class. This will allow you to repeat an assignment from class to class and retain any settings you applied.

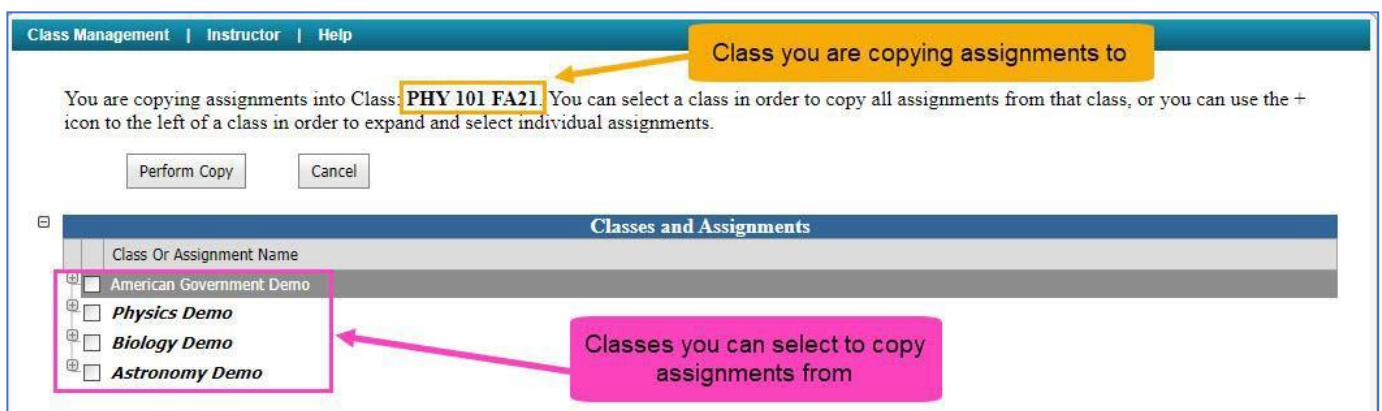
1. To start, select the class you want to copy or clone to from the **Classes** drop-down and then select **Copy Assignment/Clone Class** from the **Class Menu** drop-down on the **Class Management** screen (Figure 131).

Figure 131: Copy Assignment/Clone Class



2. On the next screen (Figure 132), the system identifies the class you are copying to so you can ensure you are copying to the correct class.

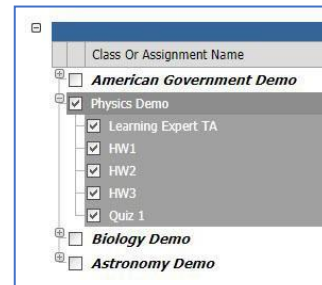
Figure 132: Class Copy Screen



3. Next, select the class you are copying from (in this example we will select the Physics Demo class).

- a. Place a checkmark next to the class to select all the assignments in the class, like [Figure 133](#).

Figure 133: Select All Assignments in a Class




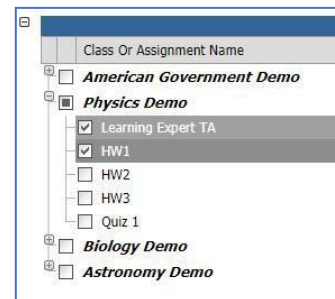
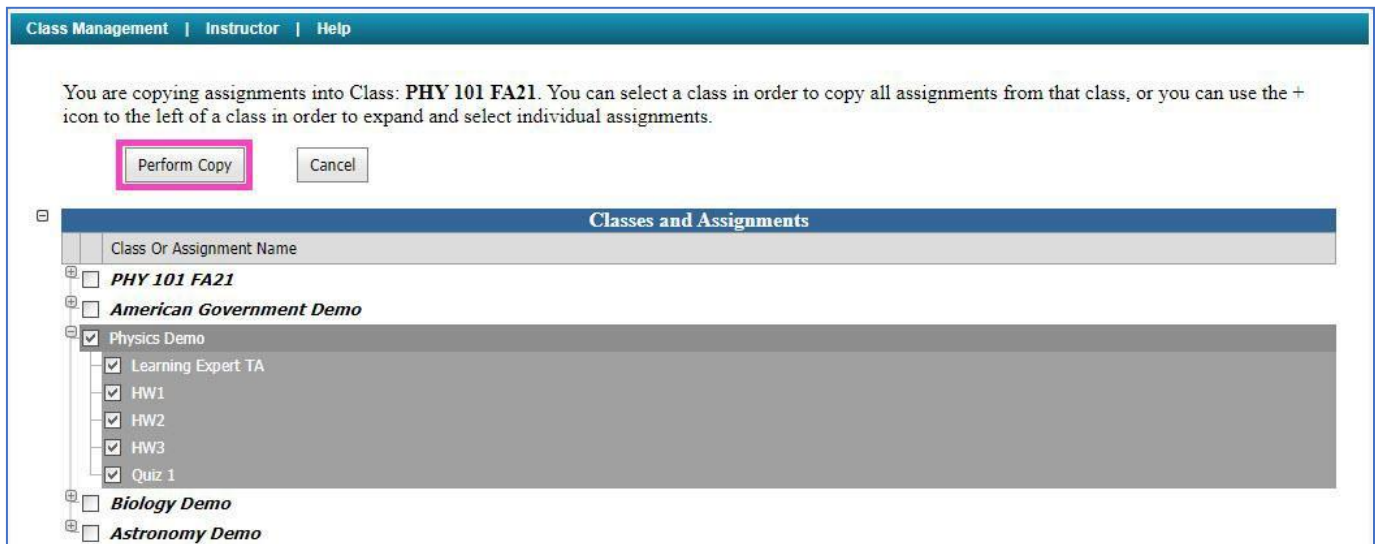
- b. Or click on the  to expand the assignment list and select one or more assignments individually by clicking on the check boxes beside each assignment, like in [Figure 134](#).

Figure 134: Select One or More Assignments



4. Once you have selected the assignments or the class you want to copy, click on the **Perform Copy** button to copy them to the selected class. In [Figure 135](#), we are copying all the assignments from Physics Demo to our new PHY 101 FA21 class. Click on the **Cancel** button to return to the **Class Management** screen without copying.

Figure 135: Perform Copy



5. After clicking on **Perform Copy**, you will receive a pop-up notification asking if you are sure you want to perform the copy ([Figure 136](#)). Click on **OK** to copy or click **Cancel** to return to the **Copy Assignment/Clone Class** screen.

Figure 136: Copy Confirmation Notification

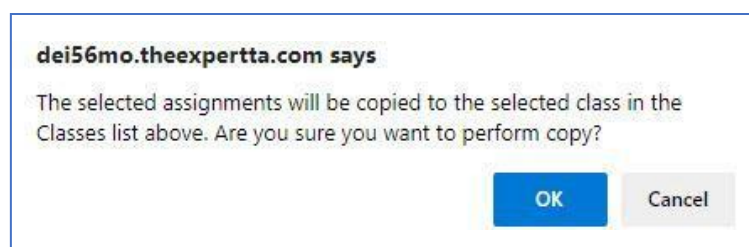


Figure 137: Copy Successful Notification



6. After clicking **OK**, you will receive another pop-up notification advising that the copy was successful ([Figure 137](#)).

7. After clicking **OK**, you will return to the **Class Management** screen where you can see and modify the assignments you copied ([Figure 138](#)).

Figure 138: Copy Class/Assignment Completed

Class Management | Instructor | Help

Classes

PHY 101 FA21

Class Menu

Please Select...

Assignments

	Assignment	Weight	Publish	Start	Due	End	Min	Template	
▼	Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM		Instructor Default	▲
▼	HW1	1	May 01, 2021 12:01 AM	Jul 31, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 24, 2021 11:59 PM	2	Exams	
▼	HW2	1	May 01, 2021 12:01 AM	Aug 10, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 17, 2021 11:59 PM		Homework	
▼	HW3	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM		Instructor Default	
▼	Quiz 1	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	60	Quizzes	

Note: When copying an assignment into a class that has an assignment with the same name, the assignment name will be amended with “(Copy 1)”. If the same assignment is copied multiple times, “(Copy #)” increases by one for each copy (see [Figure 139](#)). If you copied the assignment multiple times by mistake, you could delete the assignment (see [Deleting an Assignment](#) for instructions). If you intentionally copied the same assignment into a class multiple times, you could rename the assignment (see [Editing an Assignment](#) for instructions) or you can leave the name as is with no changes.

Figure 139: Assignment Copied Multiple Times

Class Management

Instructor

Help

Classes

PHY 101 FA21

Class Menu

Please Select...

Assignments

	Assignment	Weight	Publish	Start	Due	End	Min	Template
⊕ ▼	Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM		Instructor Default
⊕ ▼	HW1	1	May 01, 2021 12:01 AM	Jul 31, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 24, 2021 11:59 PM	2	Exams
⊕ ▼	HW2	1	May 01, 2021 12:01 AM	Aug 10, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 17, 2021 11:59 PM		Homework
⊕ ▼	HW3	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM		Instructor Default
⊕ ▼	HW3 (Copy 1)	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM		Instructor Default
⊕ ▼	HW3 (Copy 2)	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM		Instructor Default
⊕ ▼	HW3 (Copy 3)	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM		Instructor Default
⊕ ▼	HW3 (Copy 4)	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM		Instructor Default
⊕ ▼	Quiz 1	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	60	Quizzes

Copy Assignment

Expert TA offers another way to copy an assignment from one class to another. Unlike the previous **Copy Assignment/Clone Class** method, this will only copy one assignment at a time.

1. First, select the assignment you want to copy and either click on the assignment or the ▼ next to the assignment and select **Copy Assignment** from the **Assignment** menu (Figure 140).

Figure 140: Select Copy Assignment

The screenshot shows the Expert TA interface with the 'Class Management' tab selected. The 'Classes' dropdown is set to 'PHY 101 FA21'. The 'Class Menu' dropdown is set to 'Please Select...'. The 'Assignments' table is displayed with the following data:

Assignment	Weight	Publish	Start	Due	End	Min	Template
▼ Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM		Instructor Default
▼ HW1	1	May 01, 2021 12:01 AM	Jul 31, 2021 12:01 AM	Aug 10, 2021 11:59 PM	Aug 11, 2021 11:59 PM	2	Exams
▼ HW2	1	May 01, 2021 12:01 AM	Aug 10, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 17, 2021 11:59 PM		Homework
▼ HW3	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM		Instructor Default
▼ Create Assignment			AM Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	60	Quizzes
▼ Edit Assignment			AM Sep 06, 2021 12:01 AM	Sep 06, 2021 11:59 PM	Sep 06, 2021 11:59 PM	60	Quizzes

The 'Copy Assignment' option is highlighted in the dropdown menu for the 'Learning Expert TA' assignment.

2. Next, select the class or classes you want to copy the assignment to and click **Copy** to copy the assignment or **Cancel** to return to the **Class Management** screen (Figure 141).

Figure 141: Select the Class or Classes to Copy the Assignment to

The screenshot shows the 'Copy Assignment Quiz 1' dialog box. The title is 'Copy Assignment Quiz 1'. Below the title, it says 'To Selected Classes'. A list of classes is shown with checkboxes:

- ☒ PHY 101 FA21
- ☐ American Government Demo
- ☐ Physics Demo
- ☐ Biology Demo
- ☐ Astronomy Demo

The 'PHY 101 FA21' checkbox is selected. At the bottom of the dialog, there are 'Copy' and 'Cancel' buttons. An orange callout box points to the 'PHY 101 FA21' checkbox with the text: 'Select the class you want to copy the assignment to. Note: more than one class can be selected.'

- After clicking **Copy**, you will be taken back to the **Class Management** screen where you can see and/or modify your copied assignment (**Figure 142**).

Figure 142: Copy Assignment Completed

Class Management | Instructor | Help

Classes

PHY 101 FA21

Class Menu

Please Select...

Assignments

	Assignment	Weight	Publish	Start	Due	End	Min	Template
⊕ ▼	Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM		Instructor Default
⊕ ▼	HW1	1	May 01, 2021 12:01 AM	Jul 31, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 24, 2021 11:59 PM	2	Exams
⊕ ▼	HW2	1	May 01, 2021 12:01 AM	Aug 10, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 17, 2021 11:59 PM		Homework
⊕ ▼	HW3	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM		Instructor Default
⊕ ▼	Quiz 1	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	60	Quizzes
⊕ ▼	Quiz 1 (Copy 1)	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	60	Quizzes

Batch Date/Time Update

The **Batch Date/Time Update** menu allows you to adjust the dates and/or times of multiple assignments at once. To access this function, select **Batch Date/Time Update** from the **Class Menu** drop-down on the **Class Management** screen (**Figure 143**).

Figure 143: Select Batch Date/Time Update

Class Management | Instructor | Help

Classes

PHY 101 FA21

Assignments

	Assignment	Weight	Publish	Start	Due
⊕ ▼	Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM
⊕ ▼	HW1	1	May 01, 2021 12:01 AM	Jul 31, 2021 12:01 AM	Aug 17, 2021 11:59 PM
⊕ ▼	HW2	1	May 01, 2021 12:01 AM	Aug 10, 2021 12:01 AM	Aug 17, 2021 11:59 PM
⊕ ▼	HW3	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM
⊕ ▼	Quiz 1	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM
⊕ ▼	Quiz 1 (Copy 1)	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM

Class Menu

Please Select...

Please Select...
Create Class
Edit Class
Create Class Assignment
Student/TA Registration
Create News
View/Manage Class Grades
View/Manage Class Roster
Problem Solutions
Student Practice Area
Copy Assignment/Clone Class
Batch Date/Time Update
Class Analytics

Next, you will see the **Batch Date/Time Update** screen (Figure 144).

Figure 144: Batch Date/Time Update Screen

Classes

Phys 101 - 001

Weeks

0

Days

0

Hours

0

Minutes

0

☒ Publish
 ☒ Start
 ☒ Due
 ☒ End
 ☒ Students Access to Solutions
 ☐ Last Date that Students can View Work/Solutions
 ☐ Practice Start
 ☐ Practice End

Update Cancel

Assignments

Time displayed in (UTC-06:00) Central Time (US & Canada)

<input type="checkbox"/> Assignment	Weight	Publish	Start	Due	End	Solution Accessible
<input type="checkbox"/> Difficult Problems	1	Jan 01, 2014 12:00 AM	Feb 24, 2015 12:00 AM	Mar 03, 2017 12:00 AM	Mar 03, 2017 12:00 AM	
<input type="checkbox"/> Intro to Expert TA	1	Aug 01, 2019 12:01 AM	Jun 07, 2020 12:01 AM	Jun 14, 2020 11:59 PM	Jun 14, 2021 11:59 PM	
<input type="checkbox"/> math prelims	1	Jan 01, 2022 12:01 AM	Jan 15, 2021 12:01 AM	Jan 21, 2021 11:59 PM	Jan 21, 2021 11:59 PM	
<input type="checkbox"/> WISE Problems	1	Aug 01, 2019 12:01 AM	Dec 01, 2021 12:01 AM	Dec 08, 2021 11:59 PM	Dec 08, 2021 11:59 PM	
<input type="checkbox"/> Pre-Class: Work Energy 1234	1	Dec 31, 2014 12:01 AM	Jul 28, 2020 12:01 AM	Jan 30, 2022 11:59 PM	Jan 30, 2022 11:59 PM	
<input type="checkbox"/> homework 1	15	Dec 28, 2020 12:00 AM	May 09, 2022 12:00 AM	May 13, 2022 8:00 AM	May 13, 2022 8:00 AM	
<input type="checkbox"/> homework 2	1	Dec 28, 2020 12:00 AM	May 16, 2022 12:00 AM	May 20, 2022 8:00 AM	May 21, 2022 8:00 AM	

Below you will find a list of assignments for the class selected. You can move using a combination of weeks, days, hours, and minutes (negative numbers are allowed). Your choices within each may go in a positive or negative direction as indicated. Please note the check boxes for each date to be changed. This allows specific dates to be modified and allow other dates to remain unchanged.

To use the **Batch Date/Time Update** feature:

- First, select the class you want to update from the **Classes** drop-down (Figure 145).

Figure 145: Select Class to Update

Classes

PHY 101 FA21

PHY 101 FA21

American Government Demo

Physics Demo

Biology Demo

Astronomy Demo

- Next, select the assignment or assignments you want to update by checking the box next to the assignment (Figure 146).

Figure 146: Select the Assignment or Assignments to Update

Assignments

Time displayed in (UTC-06:00) Central Time (US & Canada)

<input type="checkbox"/> Assignment	Weight	Publish	Start	Due	End	Solution Accessible
<input type="checkbox"/> Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM	
<input type="checkbox"/> HW1	1	May 01, 2021 12:01 AM	Jul 31, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 24, 2021 11:59 PM	
<input type="checkbox"/> HW2	1	May 01, 2021 12:01 AM	Aug 10, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 17, 2021 11:59 PM	
<input type="checkbox"/> HW3	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM	
<input type="checkbox"/> Quiz 1	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	
<input checked="" type="checkbox"/> Quiz 1 (Copy 1)	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	

Note: Selecting the checkbox next to **Assignment** will select all the assignments in a class (Figure 147).

Figure 147: Select All Assignments

Assignments

Time displayed in (UTC-06:00) Central Time (US & Canada)

<input checked="" type="checkbox"/> Assignment	Weight	Publish	Start	Due	End	Solution Accessible
<input checked="" type="checkbox"/> Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM	
<input checked="" type="checkbox"/> HW1	1	May 01, 2021 12:01 AM	Jul 31, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 24, 2021 11:59 PM	
<input checked="" type="checkbox"/> HW2	1	May 01, 2021 12:01 AM	Aug 10, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 17, 2021 11:59 PM	
<input checked="" type="checkbox"/> HW3	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM	
<input checked="" type="checkbox"/> Quiz 1	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	
<input checked="" type="checkbox"/> Quiz 1 (Copy 1)	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	

3. Next, select which dates you want to update (**Figure 148**). You can update all date fields at once or individually.

Figure 148: Select the Dates to Update

☒ Publish
 ☒ Start
 ☒ Due
 ☒ End
 ☒ Students Access to Solutions
 ☐ Last Date that Students can View Work/Solutions
 ☐ Practice Start
 ☐ Practice End
 Update Cancel

Note: If you select **Last Date that Students can View Work/Solutions** a warning notification will pop-up to ask if you are sure you want to update this date (**Figure 149**). Click **OK** to continue and the box will be checked. Uncheck the box if you do not want to update this date.

Figure 149: Warning Notification

dei56mo.theexpertta.com says

Last Date that Students can View Work/Solutions date is the class end date. Are you sure you want to apply this update?

OK

4. Next, select the timeframe to update by typing a number in the field or using the up and down arrows (**Figure 150**). Negative numbers allow you to go backwards in time. The **Weeks** range is from -104 to 104. The **Days** range is -365 to 365. The **Hours** range is -60 to 60. The **Minutes** range is -60 to 60.

Figure 150: Select Timeframe for the Update

Weeks: 0 ▲▼
 Days: 0 ▲▼
 Hours: 0 ▲▼
 Minutes: 0 ▲▼

5. After you select the timeframe(s) to be updated, click on the **Update** button to update the assignment dates, or click **Cancel** to return to the **Class Management** screen (**Figure 151**).

Figure 151: Update or Cancel Buttons

Update Cancel

6. After clicking on the **Update** button, a warning notification will pop-up advising that the new dates will go into effect immediately and asking if you are sure you want to update the dates (**Figure 152**). Click **OK** to continue updating the assignment dates or click **Cancel** to return to the **Batch Date/Time Update** screen.

Figure 152: Batch Update Warning

dei56mo.theexpertta.com says

WARNING - Your new dates chosen will go into affect immediately for the selected assignment(s). Are you sure you want to update the dates?

OK Cancel

7. After clicking **OK**, you will receive another pop-up message advising if the update was successful (**Figure 153**).

Figure 153: Batch Update Successful

dei56mo.theexpertta.com says

Update successful!

OK

The example in [Figure 154](#), shows that the **Publish** date, **Start** date, **Due** date, and **Students Access to Solutions** date were all moved forward 22 **Weeks**, 5 **Days**, and 30 **Minutes**.

Figure 154: Batch Update Example 1

Class Management | Instructor | Help

Classes

PHY 101 FA21

Weeks: 22, Days: 5, Hours: 0, Minutes: 30

☒ Publish ☒ Start ☒ Due ☒ End ☒ Students Access to Solutions ☐ Last Date that Students can View Work/Solutions

Assignments

Time displayed in (UTC-06:00) Central Time (US & Canada)

<input type="checkbox"/>	Assignment	Weight	Publish	Start	Due	End	Solution Accessibl
<input type="checkbox"/>	Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM	
<input type="checkbox"/>	HW1	1	May 01, 2021 12:01 AM	Jul 31, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 24, 2021 11:59 PM	
<input type="checkbox"/>	HW2	1	May 01, 2021 12:01 AM	Aug 10, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 17, 2021 11:59 PM	
<input type="checkbox"/>	HW3	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM	
<input type="checkbox"/>	Quiz 1	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	
<input checked="" type="checkbox"/>	Quiz 1 (Copy 1)	1	Oct 07, 2021 12:31 AM	Jan 29, 2022 12:31 AM	Jan 30, 2022 12:29 AM	Jan 30, 2022 12:29 AM	

The example in [Figure 155](#), shows that the **Publish** date, **Start** date, **Due** date, and **Students Access to Solutions** date were all moved backward in time (using negative numbers) 22 **Weeks**, 5 **Days**, and 30 **Minutes**.

Figure 155: Batch Update Example 2

Class Management | Instructor | Help

Classes

PHY 101 FA21

Weeks: -22, Days: -5, Hours: 0, Minutes: -30

☒ Publish ☒ Start ☒ Due ☒ End ☒ Students Access to Solutions ☐ Last Date that Students can View Work/Solutions

Assignments

Time displayed in (UTC-06:00) Central Time (US & Canada)

<input type="checkbox"/>	Assignment	Weight	Publish	Start	Due	End	Solution Accessibl
<input type="checkbox"/>	Learning Expert TA	1	May 01, 2021 12:01 AM	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM	
<input type="checkbox"/>	HW1	1	May 01, 2021 12:01 AM	Jul 31, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 24, 2021 11:59 PM	
<input type="checkbox"/>	HW2	1	May 01, 2021 12:01 AM	Aug 10, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 17, 2021 11:59 PM	
<input type="checkbox"/>	HW3	1	May 01, 2021 12:01 AM	Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM	
<input type="checkbox"/>	Quiz 1	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	
<input checked="" type="checkbox"/>	Quiz 1 (Copy 1)	1	May 01, 2021 12:01 AM	Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	

When you are finished making date and time updates, click on **Cancel** or **Class Management** to return to the **Class Management** screen.

Viewing Assignment Solutions

The Expert TA offers multiple ways to view solutions to problems and assignments. From the **Class Management** screen, click on the assignment or the ▼ next to the assignment name to open the **Assignment** menu and select **View Assignment Solutions** (Figure 156).

Figure 156: Select View Assignment Solutions

The screenshot shows the 'Class Management' interface. At the top, there are tabs for 'Class Management', 'Instructor', and 'Help'. Below these, there are two dropdown menus: 'Classes' (set to 'PHY 101 FA21') and 'Class Menu' (set to 'Please Select...'). The main section is titled 'Assignments' and contains a table with columns: Assignment, Weight, Publish, Start, Due, End, Min, and Template. The first row is 'Learning Expert TA' with a weight of 1, published on May 01, 2021, and due on Jul 13, 2021. A dropdown menu is open for this assignment, showing options: 'Create Assignment', 'Edit Assignment', 'Delete Assignment', 'Take Assignment', 'View Printable Assignment', 'Copy Assignment', 'View Grade Report (shows your detailed work)', 'Manage Grades (Grade Manually)', 'View Grades (Spreadsheet)', 'View Assignment Solutions' (highlighted with a yellow box), 'Take in Practice Mode', 'Export Assignment Text Answers', and 'Assignment Analytics'.

Once you select **View Assignment Solutions**, you will see the assignment with full solutions for each problem (see Figure 157).

Figure 157: Assignment Full Solutions View

The screenshot shows the 'Assignment Full Solutions View' for 'Physics Demo HW1'. At the top, there is a 'View Basic/Answers' button (highlighted with a yellow box) and a 'Switch to Basic/Answers view by clicking here' button (highlighted with a yellow box). Below these, there is a note: 'Note: The variables used in the below solutions are not the same as those used in your assignment.' followed by 'Begin Date: 8/16/2021 12:01:00 AM -- Due Date: 9/14/2021 11:59:00 PM End Date: 9/17/2021 11:59:00 PM'. The main section is titled 'Problem 1 - 1.1.1:' and contains the text: 'Assuming the mass of an average cell is ten times the mass of a bacterium (which is 10^{-15} kg):'. Below this, there is a pink box containing the solution for 'Part (a) Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.' The solution includes the text: 'As stated, the mass of an average cell is', the equation $m_c = 10m_b \text{ kg}$, the text 'where m_b is the mass of a bacterium in kg. The number of cells in a hummingbird is', the equation $n_c = \frac{m_h}{m_c} = \frac{m_h}{10m_b}$, the text 'where m_h is the mass of one hummingbird. Plugging in numbers and converting units as needed,', the equation $n_c = \frac{(10^{-2} \text{ kg})}{(10 \cdot 10^{-15} \text{ kg})}$, and the final result 'cells/hummingbird = 1000000000000'. A pink callout box with an arrow points to the solution, stating: 'Full Solution includes step by step solution details and is displayed here.'

The full solution view shows a detailed step by step solution to the problems. Click on **View Basic/Answers** near the top of the screen to switch to the basic solution view of the assignment.

If you click on **View Basic/answers**, you will see the assignment with basic answers for each problem (Figure 158). Click on **View Full Solutions** to switch back to the full solution view of the assignment.

Figure 158: Assignment Basic Answer View

Class Management | Instructor | Help

Physics Demo HW1 [View Full Solutions](#)

Note: The variables used in the below solutions are not the same as those used in your assignment.
Begin Date: 8/16/2021 12:01:00 AM -- **Due Date:** 9/14/2021 11:59:00 PM **End Date:** 9/17/2021 11:59:00 PM

Problem 1 - 1.1.7 :
 Assuming the mass of an average cell is ten times the mass of a bacterium (which is 10^{-15} kg):

Part (a) Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.
 $cells/hummingbird = 10^{12}$
 $cells/hummingbird = 1000000000000$
 Tolerance: ± 300000000000

Part (b) Calculate the number of cells in a human, assuming they have a mass of 10^2 kg.
 $cells/human = 10^{16}$
 $cells/human = 1E+16$
 Tolerance: ± 3000000000000000

Edit Assignment View Solutions

Assignment solutions can also be viewed while in the **Edit Assignment** screen by clicking on the **View Solutions** button at the top (Figure 159).

Figure 159: View Solutions Button

Class Management | Instructor | Help

PHY 101 FA21 [For help on this page click here](#)

Save Only Save And Exit Undo Changes Delete Assignment Printable Assignment **View Solutions** Extensions Security

Assign. Name: HW1 Weight: 1 Grade Template: Exams
 Description: HW1 Integrity Temp.: Instructor Default

Publish Date (Date the Assignment will be visible to Students in their list)
 Date: 05/01/2021 12:01 AM

After clicking on the **View Solutions** button, a new tab will open in your browser and the full solutions to the assignment will be displayed (**Figure 160**). As you can see from the image, this method to **View Solutions** is the same as the previously mentioned **View Assignment Solutions**. Click on **View Basic/Answers** to switch to the basic answer view of the assignment and click on **View Full Solutions** to switch back to the full solutions view when in the basic answer view. To exit, close the opened tab with the solutions or you can switch back to the tab with the **Edit Assignment** screen.

Figure 160: View Solutions from the Edit Assignment Screen

PHY 101 FA21 HW1

View Basic/Answers

Note: The variables used in the below solutions are not the same as those used in your assignment.

Begin Date: 7/31/2021 12:01:00 AM -- **Due Date:** 8/10/2021 11:59:00 PM **End Date:** 8/11/2021 11:59:00 PM

Problem 1 - 1.1.7 :

Assuming the mass of an average cell is ten times the mass of a bacterium (which is 10^{-15} kg):

Part (a) Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.

As stated, the mass of an average cell is

$$m_c = 10m_b \text{ kg}$$

where m_b is the mass of a bacterium in kg. The number of cells in a hummingbird is

$$n_c = \frac{m_h}{m_c} = \frac{m_h}{10m_b}$$

where m_h is the mass of one hummingbird. Plugging in numbers and converting units as needed,

$$n_c = \frac{(10^{-2} \text{ kg})}{(10 \cdot 10^{-15} \text{ kg})}$$

cells/hummingbird = 1000000000000

Students can View Solutions

In the **Edit Assignment** screen on the right-hand side, there is a setting **Students can View Solutions**. This setting allows the student to view the full solutions to the assignment starting on the date entered.

To enable this setting, click on the check box (**Figure 161**).

Figure 161: Students can View Solutions Setting

Class Management | Instructor | Help

PHY 101 FA21 For help on this page click here

Save Only | Save And Exit | Undo Changes | Delete Assignment | Printable Assignment | View Solutions | Extensions | Security

Assign. Name: HW1 Weight: 1 Grade Template: Exams
 Description: HW1 Integrity Temp.: Instructor Default

Add Question Pool

	Prob #	Weight	Problems
<input type="radio"/>	Prob 1	1	1.1.7 x
<input type="radio"/>	Prob 2	1	1.1.1 x
<input type="radio"/>	Prob 3	2	1.1.10 x
<input type="radio"/>	Prob 4	3	1.1.11 x 1.1.12 x 1.1.13 x 1.1.14 x
<input type="radio"/>	Prob 5	2	c1.2.3 x
<input type="radio"/>	Prob 6	2	1.2.1 x
<input type="radio"/>	Prob 7	3	1.2.3 x
<input type="radio"/>	Prob 8	3	1.2.8 x
<input type="radio"/>	Prob 9	3	1.2.10 x
<input type="radio"/>	Prob 10	2	1.3.12 x

Books | **Chapters**

Expert TA: Introduction to Physics | Expert TA System

Filter by Problem Difficulty and Type

☒ All Problems ☐ 1 Easy ☐ 2 Medium-Easy ☒ All Problems ☐ Algebra
☐ 3 Medium ☐ 4 Medium-Hard ☐ 5 Hard ☐ Calculus ☐ Conceptual

Publish Date (Date the Assignment will be visible to Students in their list)
 Date: 05/01/2021 12:01 AM

Assignment Dates
 Start: 07/31/2021 12:01 AM
 Due: 08/10/2021 11:59 PM
 End: 08/11/2021 11:59 PM
☒ Timed Assignment 2 Min
 Reset All Students Timers

☒ **Students can View Solutions**
 Start:

Publish Until (Last Date that Students can View Work/Solutions)
 End: 12/31/2021 12:00 AM

☒ **Take in Practice Mode**
 Start:
 End:

Figure 162: Students can View Solutions Warning Notification

dei56mo.theexpertta.com says

Please be aware that by turning Solutions Visibility on you will need to validate any existing extensions to ensure they are set to have access to solutions based on the individual extension settings.

OK

When you click on the checkbox, a pop-up message will appear to warn you to validate any existing extensions to ensure they are set to have access to solutions based on the individual settings (**Figure 162**). For more information on extensions see [Managing Extensions for a Student](#).

Next, enter the date and time you want the students to be able to view the solutions to the assignment, see [Figure 163](#). The date can be edited by typing in the box or by using the down arrow to select a date from the calendar. The time can be updated by typing in the box or by using the up or down arrows.

Figure 163: Students can View Solutions - Enter Date

The screenshot shows the Blackboard 'Class Management' interface for 'PHY 101 FA21'. The 'Assign. Name' is 'HW1' and the 'Weight' is '1'. The 'Grade Template' is 'Exams' and the 'Integrity Temp.' is 'Instructor Default'. The 'Publish Date' is set to '05/01/2021 12:01 AM'. The 'Assignment Dates' section shows 'Start' as '07/31/2021 12:01 AM', 'Due' as '08/10/2021 11:59 PM', and 'End' as '08/11/2021 11:59 PM'. The 'Timed Assignment' is set to '2' minutes. The 'Students can View Solutions' checkbox is checked, with the 'Start' date set to '08/11/2021 11:59 PM'. The 'Publish Until' date is '12/31/2021 12:00 AM'. The 'Take in Practice Mode' checkbox is unchecked. A yellow callout box points to the 'Start' date for 'Students can View Solutions' with the text: 'Start date automatically sets to match the End date for the assignment by default but date and time can be changed, as needed.'

Note: The **Start** date for this setting will automatically default to match the **End** date and time of the assignment, but the date and time can be set to any date and time desired.

With the **Students can View Solutions** setting enabled and after the set **Start** date has passed, a student can view the solutions to an assignment by clicking on the assignment and selecting **View Assignment Solutions** ([Figure 164](#)).

Figure 164: View Assignment Solutions as Configured

Assignments								
Assignment	Weight	Start	Due	End	Min	Template	Status	
▼ Learning Expert TA	1	Jul 06, 2021 12:01 AM	Jul 13, 2021 11:59 PM	Jul 13, 2021 11:59 PM		Instructor Default	No Work	▲
▼ Take Assignment		Jul 31, 2021 12:01 AM	Aug 10, 2021 11:59 PM	Aug 11, 2021 11:59 PM	2	Exams	No Work	
▼ View Printable Assignment		Aug 10, 2021 12:01 AM	Aug 17, 2021 11:59 PM	Aug 17, 2021 11:59 PM		Homework	No Work	
▼ View Grade Report (shows your detailed work)		Aug 13, 2021 12:01 AM	Aug 20, 2021 11:59 PM	Aug 20, 2021 11:59 PM		Instructor Default	No Work	
▼ View Grades (Spreadsheet)		Aug 23, 2021 12:01 AM	Aug 23, 2021 11:59 PM	Aug 23, 2021 11:59 PM	60	Quizzes	No Work	
▼ View Assignment Solutions		Sep 06, 2021 12:01 AM	Sep 06, 2021 11:59 PM	Sep 06, 2021 11:59 PM	60	Quizzes	No Work	
▼ Take in Practice Mode								

After clicking on **View Assignment Solutions**, the student will see step by step solutions to their assignment just like the instructor, see [Figure 165](#). At the top of the page, you will see “**Note: The variables used in the below solutions are not the same as those used in your assignment.**” This means that if a problem has a random variable assigned, the student will see the problem solved for the stated random variable. This will not be the same random variable that the student received when working on their assignment.

Figure 165: View Assignment Solutions as Configured - Student View

Class Management | Help

Physics Demo HW1

Note: The variables used in the below solutions are not the same as those used in your assignment.

Problem 1 - 1.1.7 :
Assuming the mass of an average cell is ten times the mass of a bacterium (which is 10^{-15} kg):

Part (a) Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.

As stated, the mass of an average cell is

$$m_c = 10m_b \text{ kg}$$

where m_b is the mass of a bacterium in kg. The number of cells in a hummingbird is

$$n_c = \frac{m_h}{m_c} = \frac{m_h}{10m_b}$$

where m_h is the mass of one hummingbird. Plugging in numbers and converting units as needed,

$$n_c = \frac{(10^{-2} \text{ kg})}{(10 \cdot 10^{-15} \text{ kg})}$$

cells/hummingbird = 1000000000000

For example, in **Figure 166** you can see the random variable of 3.102cm was used to solve the problem in the **View Assignment Solutions**. In **Figure 167**, you can see that the student was assigned a different random variable of 3.232cm for this assignment.

Figure 166: View Assignment Solutions as Configured Example

Problem 2 - 1.1.1 :
A circle has a diameter of 3.102 cm.

Part (a) What is the area of the circle in cm²?

The area for a circle is

$$A = \pi r^2 \text{ m}^2$$

where r is the radius of the circle in m. The diameter is twice the radius. Therefore,

$$A = \pi \left(\frac{d}{2} \right)^2$$

Plugging in numbers and converting units as needed,

$$A = \pi \cdot (3.102 \text{ cm})^2$$

$$A = 7.557 \text{ cm}^2$$

When the student clicks on "View Assignment Solutions" they will see the problem worked out step by step. However, the random variable may not match the one the student received in their assignment.

Figure 167: View Assignment Solutions as Configured - Actual Variable Assigned to Student

Class Management | Instructor | Help

Switch to Part Centric View For help on this page click here.

Students **Grade View - HW1**

Previous Next Student: Baggins, Frodo ☒ Show Correct ☒ Expand Submission History and Grade Summary

Brandybuck, Merry **Part (a) Calculate the number of cells in a human, assuming they have a mass of 10⁴ kg.**

Gamgee, Samwise **Correct Answer** **Student Answer** **Grade** **Comments** **Grade Change**

Lady of the Wood, Gal cells/human = 1E+16 [?] [?] [?] Apply Grade Reset Attempts

Lord of Rivendell, Elr

Rivendell, Arawen

Strider, Aragorn

student, test

Taylor, Harmony

The Grey, Gandalf

Took, Pippen

Grade = 0%

Grade Summary

Deduction for Final Submission 0%

Deductions for Incorrect Submissions, Hints and Feedback [?] 0%

Student Grade = 100 - 0 - 0 = 0%

Problem 2: A circle has a diameter of 3.232 cm.

What is the area of the circle in cm²?

Correct Answer **Student Answer** **Grade** **Comments** **Grade Change**

A = 8.204 A = 8.2 100 [?] [?] [?] Apply Grade Reset Attempts

Grade = 100%

Grade Summary

Deduction for Final Submission 0%

Deductions for Incorrect Submissions, Hints and Feedback [?] 0%

Student Grade = 100 - 0 - 0 = 100%

Date	Time	Answer	Hints	Feedback
1 Aug 04, 2021	2:24 PM	A = 8.2		

This is the random variable the student actually received when they worked the problem.

The other way you can access a printable assignment is to click **Printable Assignment** button in the **Edit Assignment** screen, see [Figure 171](#).

Figure 171: Printable Assignment Button in Edit Assignment Screen

Class Management | Instructor | Help

Physics Demo [For help on this page click here](#)

Save Only Save And Exit Undo Changes Delete Assignment **Printable Assignment** View Solutions Extensions Security

Assign. Name: HW1 Weight: 1 Grade Template: Homework
 Description: HW1 Integrity Temp.: Instructor Default

Add Question Pool	Prob #	Weight	Problems
Add To	Prob 1	1	1.1.7 x
Expand	Prob 2	1	1.1.1 x
	Prob 3	2	1.1.10 x
	Prob 4	3	1.1.11 x 1.1.12 x 1.1.13 x 1.1.14 x
	Prob 5	2	c1.2.3 x

Publish Date (Date the Assignment will be visible to Students in their list)
 Date: 05/01/2021 12:01 AM

Assignment Dates
 Start: 07/31/2021 12:01 AM
 Due: 08/13/2021 11:59 PM
 End: 08/13/2021 11:59 PM
☐ Timed Assignment Min

Either way you access the printable assignment, the results will be the same and will look like the sample in [Figure 172](#). To print the assignment, right click on the assignment and select print or you can use the keyboard shortcut (CTRL+P).

Figure 172: Printable Assignment Sample

Class Management | Instructor | Help

Physics Demo HW1

HW1 Begin Date: 7/31/2021 12:01:00 AM -- **Due Date:** 8/13/2021 11:59:00 PM **End Date:** 8/13/2021 11:59:00 PM

Problem 1: Assuming the mass of an average cell is ten times the mass of a bacterium (which is 10^{-15} kg):

Part (a) Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.
Numeric : A numeric value is expected and not an expression.
 cells/hummingbird = _____

Part (b) Calculate the number of cells in a human, assuming they have a mass of 10^2 kg.
Numeric : A numeric value is expected and not an expression.
 cells/human = _____

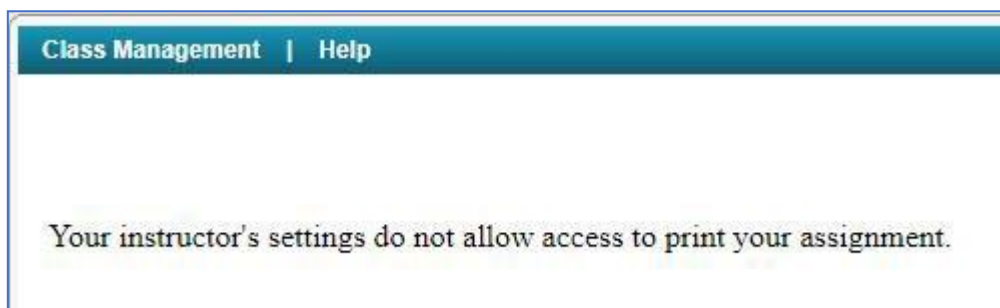
As previously mentioned in [Access to Printable Assignment](#), if this setting is enabled the student can access a printable version of the assignment by clicking on the assignment and selecting **View Printable Assignment**, see [Figure 173](#).

Figure 173: Select View Printable Assignment - Student Menu

Assignments							
Assignment	Weight	Start	Due	End	Min	Template	Status
▼ Learning Expert TA	1	Aug 05, 2021 12:01 AM	Aug 19, 2021 11:59 PM	Sep 03, 2021 11:59 PM		Instructor Default	No Work
▼ Take Assignment		Aug 16, 2021 12:01 AM	Sep 14, 2021 11:59 PM	Sep 17, 2021 11:59 PM		Homework	Complete
▼ View Printable Assignment		Oct 05, 2021 12:01 AM	Oct 12, 2021 11:59 PM	Oct 12, 2021 11:59 PM		Homework	No Work
▼ View Grade Report (shows your detailed work)		Oct 08, 2021 12:01 AM	Oct 15, 2021 11:59 PM	Oct 15, 2021 11:59 PM		Instructor Default	No Work
▼ View Grades (Spreadsheet)		Oct 19, 2021 12:01 AM	Oct 19, 2021 11:59 PM	Oct 19, 2021 11:59 PM	60	Quizzes	No Work
View Assignment Solutions							
Take in Practice Mode							

If **Access to Printable Assignment** is not enabled and the student clicks on **View Printable Assignment**, the student will not be able to access a printable version of their assignment. The student will receive the following message, see [Figure 174](#).

Figure 174: View Printable Assignment Not Allowed



Take Assignment

Take assignment allows you to evaluate your assignment problems and settings by working the assignment as a student.

From the **Class Management** screen, click on the assignment and select **Take Assignment** from the menu, ([Figure 175](#)).

Figure 175: Select Take Assignment

Assignments							
Assignment	Weight	Publish	Start	Due	End	Min	Template
⊞ ▼ Learning Expert TA	1	May 01, 2021 12:01 AM	Aug 05, 2021 12:01 AM	Aug 19, 2021 11:59 PM	Sep 03, 2021 11:59 PM		Instructor Default
⊞ ▼ Create Assignment			AM Aug 16, 2021 12:01 AM	Sep 14, 2021 11:59 PM	Sep 17, 2021 11:59 PM		Homework
⊞ ▼ Edit Assignment			AM Oct 05, 2021 12:01 AM	Oct 12, 2021 11:59 PM	Oct 12, 2021 11:59 PM		Homework
⊞ ▼ Delete Assignment			AM Oct 08, 2021 12:01 AM	Oct 15, 2021 11:59 PM	Oct 15, 2021 11:59 PM		Instructor Default
⊞ ▼ Take Assignment			AM Oct 19, 2021 12:01 AM	Oct 19, 2021 11:59 PM	Oct 19, 2021 11:59 PM	60	Quizzes
View Printable Assignment							
Copy Assignment							
View Grade Report (shows your detailed work)							
Manage Grades (Grade Manually)							
View Grades (Spreadsheet)							
View Assignment Solutions							
Take in Practice Mode							
Export Assignment Text Answers							
Assignment Analytics							

This will open the assignment where you can work the assignment like a student, see (Figure 176).

Figure 176: Take Assignment

Class Management | Instructor | Help

HW1 Begin Date: 8/16/2021 12:01:00 AM -- Due Date: 9/14/2021 11:59:00 PM End Date: 9/17/2021 11:59:00 PM

(5%) Problem 1: Assuming the mass of an average cell is ten times the mass of a bacterium (which is 10^{-15} kg):

Assignment Status

[Click here for detailed view](#)

Problem	Status
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

50% Part (a) Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.

cells/hummingbird =

sin()	cos()	tan()	π	(	)	7	8	9	HOME
cotan()	asin()	acos()	E	\uparrow	\downarrow	4	5	6	\leftarrow
atan()	acotan()	sinh()		/	*	1	2	3	\rightarrow
cosh()	tanh()	cotanh()		+	-	0	.		END
<input checked="" type="radio"/> Degrees <input type="radio"/> Radians			$\sqrt{}$	BACKSPACE	DEL	CLEAR			

Submit Hint Feedback I give up!

Hints: 2% deduction per hint. Hints remaining: 2 Feedback: 2% deduction per feedback.

Instructor/TA Admin

Problem Name: 1.1.7

Reset All State Data: [Assignment](#) [Reset Submission Data: Problem Part Last Submission](#)

50% Part (b) Calculate the number of cells in a human, assuming they have a mass of 10^2 kg.

A Grade Summary
Deductions 0%
Potential 100%

B Submissions
Attempts remaining: 5
(4% per attempt)
[detailed view](#)

C

- A. **Grade Summary** – Shows the student any deductions they have earned from submission attempts, Hints, and Feedback. It also shows their potential score for the assignment after subtracting any deductions the student earned.
- B. **Submissions** – Shows the student the number of attempts remaining for the problem and the deduction for each attempt. If you click on detailed view, a detailed list of previous submissions will be displayed at the bottom of the question under the Hints and Feedback areas (Figure 177).

Figure 177: Detailed View - Submission History

50% Part (a) Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.

cells/hummingbird =

sin()	cos()	tan()	π	(	)	7	8	9	HOME
cotan()	asin()	acos()	E	\uparrow	\downarrow	4	5	6	\leftarrow
atan()	acotan()	sinh()		/	*	1	2	3	\rightarrow
cosh()	tanh()	cotanh()		+	-	0	.		END
<input checked="" type="radio"/> Degrees <input type="radio"/> Radians			$\sqrt{}$	BACKSPACE	DEL	CLEAR			

Submit Hint Feedback I give up!

Hints: 2% deduction per hint. Hints remaining: 2 Feedback: 2% deduction per feedback.

Submission History

All Date times are displayed in Central Standard Time. Red submission date times indicate late work.

Date	Time	Answer	Hints	Feedback
1	Aug 24, 2021 9:40 AM	cells/hummingbird = 5		
2	Aug 24, 2021 9:40 AM	cells/hummingbird = 12		

Grade Summary
Deductions 8%
Potential 92%

Submissions
Attempts remaining: 3
(4% per attempt)
[detailed view](#)

1 4%
2 4%

- C. **Hints & Feedback** – If the student selects the **Hint** button or the **Feedback** button, the Hint or Feedback will be displayed in this area, see **Figure 178**. This also shows the student the deduction for accessing each Hint or Feedback and may show the number of Hints or Feedback remaining.

Figure 178: Take Assignment - Hints & Feedback

50% Part (a) Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.

cells/hummingbird =

sin()	cos()	tan()	π	(	)	7	8	9	HOME
cot()	asin()	acos()	E	\uparrow	\uparrow	4	5	6	\leftarrow
atan()	acot()	sinh()		/	*	1	2	3	\rightarrow
cosh()	tanh()	cotanh()		+	-	0	.		END

☒ Degrees ☐ Radians

Hints: 2 for a 4% deduction. Hints remaining: 0

-The numbers you are given are estimates, but it shows how you can get answers to difficult questions with approximations.
-You may need to find the mass of a single cell.

Feedback: 2% deduction per feedback.

Submission History
All Date times are displayed in Central Standard Time. Red submission date times indicate late work.

	Date	Time	Answer	Hints	Feedback
1	Aug 24, 2021	9:40 AM	cells/hummingbird = 5		
2	Aug 24, 2021	9:40 AM	cells/hummingbird = 12	-The numbers you are given are estimates, but it shows how you can get answers to difficult questions with approximations. -You may need to find the mass of a single cell.	

Instructor/TA Admin Area

The **Instructor/TA Admin** area is not visible to the students and provides additional functionality to an instructor when evaluating an assignment or specific problems in an assignment (**Figure 179**).

Figure 179: Instructor/TA Admin Area

Instructor/TA Admin

Problem Name: 1.1.7

Reset All State Data:

- A. **Assignment** button – will reset all submitted data for an assignment and new variable values will be created. When you click on this button, a warning notification will appear, like **Figure 180**. Click the **OK** button to continue or **Cancel** button to return to the assignment without resetting any data.

Figure 180: Assignment Reset Warning

dei56mo.theexpertta.com says

Warning: Are you sure you want to erase all the assignment data for this assignment. All assignment data will be cleared and new variable values will be created.

- B. **Problem** button – will reset all submitted data for the active problem. When you click on this button, a warning notification will appear, like **Figure 181**. Click the **OK** button to continue or **Cancel** button to return to the assignment without resetting any data.

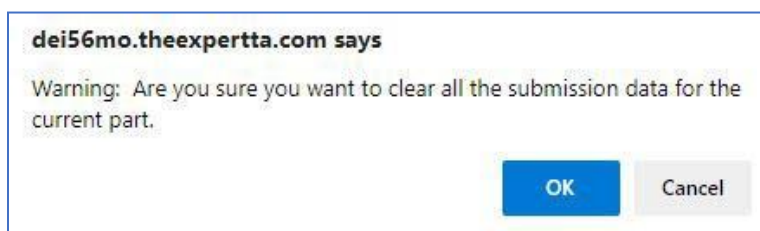
Figure 181: Problem Reset Warning

dei56mo.theexpertta.com says

Warning: Are you sure you want to clear all the submission data for all parts of this problem.

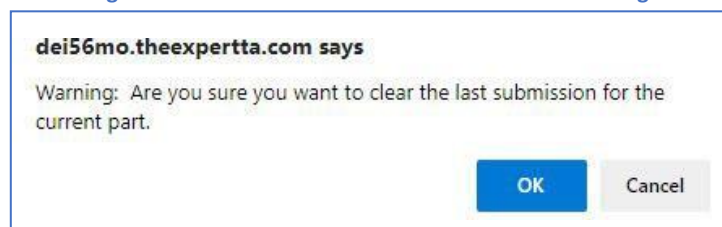
- C. **Part** button – will reset all submitted data for the active part of the assignment. When you click on this button, a warning notification will appear like [Figure 182](#). Click the **OK** button to continue or **Cancel** button to return to the assignment without resetting any data.

Figure 182: Problem Part Reset Warning



- D. **Last Submission** button– will reset only the last submission for the active part of the assignment. When you click on this button, a warning notification will appear, like [Figure 183](#). Click the **OK** button to continue or **Cancel** button to return to the assignment without resetting any data.

Figure 183: Problem Part Last Submission Reset Warning

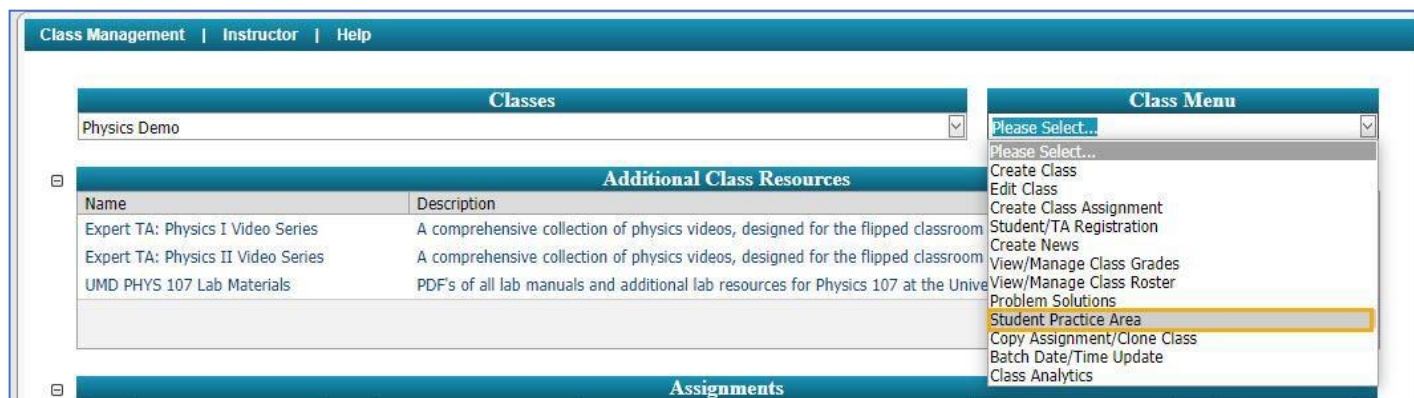


Student Practice Area

Note: The **Student Practice Area** only applies to the Introduction to Physics book. [Take in Practice Mode](#) is currently recommended for all subjects and is discussed in greater detail later in this manual.

The **Student Practice Area** allows students to create a tutorial assignment for additional practice in an area that will not affect the student's grade. To access the **Student Practice Area**, click on the **Class Menu** drop-down and select **Student Practice Area** ([Figure 184](#)).

Figure 184: Select Student Practice Area



After selecting **Student Practice Area**, a new window will be displayed like the one in [Figure 185](#). This area works similarly to the **Create/Edit Assignment** except that **Tutorial Assignments** cannot be saved.

Figure 185: Student Practice Area

Figure 186: Student Practice Area - Book & Chapter Selection

First, select the book you want to use from the **Books** drop-down and then select the chapter from the **Chapters** drop-down ([Figure 186](#)).

Next, select the problems you want to practice with by clicking on the checkbox in the upper left-hand corner next to the problem name, see ([Figure 187](#)).

Figure 187: Student Practice Area - Select Problems for Practice

Figure 188: Student Practice Area - Tutorial Assignment

Class Management | Instructor | Help

Problems Prob. 1 Prob. 2 Prob. 3 Prob. 4
 Prob. Name 5.2.1 x 5.3.1 x 5.3.3 x 5.3.6 x

Take Tutorial Assignment
 Clear Selection

Books
 Expert TA: Introduction to Physics
Chapters
 5. Newton's Laws

Filter by Problem Difficulty and Type

☒ All Problems ☐ 1 Easy ☒ All Problems ☐ Algebra
☐ 2 Medium-Easy ☐ 3 Medium ☐ Calculus ☐ Conceptual
☐ 4 Medium-Hard ☐ 5 Hard

☐ Expand All Sections

5.2 - Mass
 5.3 - Newton's Second Law

☒ 5.3.1, Alg, 4 A boxer's fist and glove have a mass of $m = 1.02$ kg. The boxer's fist can obtain a speed of $v = 5.25$ m/s in a time of $t = 0.25$ s.
 a. Write a symbolic expression for the magnitude of the average acceleration, a_{aver} , of the boxer's fist, in terms of the variables provided.
 b. Find the magnitude of the average acceleration, a_{aver} , in meters per square second.
 c. Write an expression for the magnitude of the average net force, F_{net} , that the boxer must apply to his fist to achieve the given velocity. (Write the expression in terms of m , v and t).
 d. What is the numerical value of F_{net} in newtons?

☐ 5.3.1 (alt), Alg, 3 A boxer's fist and glove have a mass of $m = 0.88$ kg. The boxer's fist can obtain a speed of $v = 7.5$ m/s in a time of $t = 0.22$ s.
 a. Find the magnitude of the average acceleration a_{aver} , in meters per square second, of the boxer's fist.
 b. How much force did the boxer apply to his fist/glove, in newtons?

☒ 5.3.3, Alg, 3, RP A bullet with a mass of $m = 18.5$ g is shot out of a rifle that has length $L = 0.94$ m. The bullet spends $t = 0.17$ s in the barrel.
 a. Write an expression, in terms of the given quantities, for the magnitude of the bullet's acceleration, a , as it travels through the rifle's barrel. You may assume the acceleration is constant throughout the motion.
 b. Calculate the numerical value for the magnitude of the bullet's acceleration, a in m/s^2 .
 c. What is the numerical value of the net force F_{NET} in newtons acting on the bullet?

☐ 5.3.3 (alt), Alg, 3 A bullet with a mass of $m = 18$ g is shot out of a rifle that has length $L = 0.92$ m. The bullet spends $t = 0.11$ s in the barrel.
 a. Calculate the magnitude of the bullet's acceleration, in meters per second squared, as it travels through the rifle's barrel. You may assume the acceleration is constant throughout the motion.
 b. What is the numerical value of the net force F_{NET} in newtons acting on the bullet?

☒ 5.3.6, Alg, 4, RP A toy car rolls down a ramp at a constant velocity. The car's mass is $m = 1.1$ kg and the ramp makes an angle of $\theta = 18$ degrees with respect to the horizontal. Assume the rolling resistance is negligible.
 a. What is the magnitude of the car's acceleration, a in m/s^2 ?
 b. What is the numeric value for the sum of the forces in the x -direction, ΣF_x , in Newtons?

☐ 5.3.8, Alg, 4
 Attached to the rear-view mirror of a car is a small crystal of mass 50 g on a string. When the car is stopped at a light, the crystal hangs vertically. When the light turns green, the driver accelerates and notices the crystal makes an angle of $\theta = 7$ degrees with respect to the vertical.
 a. Please select the correct free body diagram, using an inertial coordinate system fixed to the road. given

A. **Problems** area – Selected problems will appear in this area (Figure 188), in the order they were selected. Individual problems can be removed by clicking on the **x**.

B. **Take Tutorial Assignment** button – Clicking this button (Figure 188) will take you to the tutorial assignment you created. The tutorial assignment has the same functionality as any other assignment, but it does not count toward any grade. Click on **Return to Tutorial Problem Selection** at any time to start the assignment over or to create a new assignment (Figure 189).

Figure 189: Student Practice Area - Take Tutorial Assignment

The screenshot shows the Expertta interface. On the left is a sidebar with 'Assignment Status' and a list of problems (1-4). The main area displays 'Problem 1' about pulleys. Two diagrams are shown: 'one pass' and 'two passes'. The 'one pass' diagram shows a single rope segment between two pulleys. The 'two passes' diagram shows two rope segments. Below the diagrams is a question: '25% Part (a) How many times, x , does the cable pass over the pulley within the crane? (Assume that the tension in each segment of the rope is the same.)'. There is an input field for x . Below the input field is a calculator with various functions (sin, cos, tan, etc.) and a numeric keypad. At the bottom are buttons for 'Submit', 'Hint', 'Feedback', and 'I give up!'. On the right side of the main area, there is a 'Grade Summary' showing 'Deductions: 0%' and 'Potential: 100%', and a 'Submissions' section showing 'Attempts remaining: 20' and '(0% per attempt)'. A 'Return to Tutorial Problem Selection' link is highlighted in the top left of the main area.

Figure 190: Return to Tutorial Problem Selection Warning

If you click on **Return to Tutorial Problem Selection**, you will see a warning like (Figure 190). Click the **OK** button to **Return to Tutorial Problem Selection** or click the **Cancel** button to stay in the current tutorial assignment.

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If you return to problem selection any work you have completed will be reset.

OK

Cancel

- C. **Clear Selection** button – Clicking this button will clear all the selected problems in the **Problems** area so that you can create a new tutorial assignment.

To exit the **Student Practice Area**, click on **Class Management** in the upper left-hand corner.

Take in Practice Mode

Take in **Practice Mode** allows students to practice with the assignments in their class but without affecting their grade.

To enable **Take in Practice Mode** on an assignment:

1. Locate the assignment on the **Class Management** page
2. Click on the ▼ or click on the assignment name and select **Edit Assignment** from the menu.
3. On the **Edit Assignment** screen, click on the checkbox next to **Take in Practice Mode** located near the bottom right-hand corner (**Figure 191**).

Figure 191: Setup Take in Practice Mode

Class Management | Instructor | Help

Physics Demo [For help on this page click here](#)

Save Only Save And Exit Undo Changes Delete Assignment Printable Assignment View Solutions Extensions Security

Assign. Name: HW1 Weight: 1 Grade Template: Homework

Description: HW1 Integrity Temp.: Instructor Default

Add Question Pool	Prob #	Weight	Problems
Add To	Prob 1	1	1.1.7 x
Expand	Prob 2	1	1.1.1 x
	Prob 3	2	1.1.10 x
	Prob 4	3	1.1.11 x 1.1.12 x 1.1.13 x 1.1.14 x
	Prob 5	2	c1.2.3 x
	Prob 6	2	1.2.1 x
	Prob 7	3	1.2.3 x
	Prob 8	3	1.2.8 x
	Prob 9	3	1.2.10 x
	Prob 10	2	1.3.12 x

Enable Take in Practice Mode by checking the box and then edit the dates to any date you like during the term.

Books Expert TA: Introduction to Physics **Chapters** Expert TA System

Filter by Problem Difficulty and Type

☒ All Problems ☐ 1 Easy ☐ 2 Medium-Easy ☒ All Problems ☐ Algebra

☐ 3 Medium ☐ 4 Medium-Hard ☐ 5 Hard ☐ Calculus ☐ Conceptual

Publish Date (Date the Assignment will be visible to Students in their list)

Date: 05/01/2021 12:01 AM

Assignment Dates

Start: 08/16/2021 12:01 AM

Due: 09/14/2021 11:59 PM

End: 09/17/2021 11:59 PM

☐ Timed Assignment Min

☒ **Students can View Solutions**

Start: 08/24/2021 12:00 AM

Publish Until (Last Date that Students can View Work/Solutions)

End: 10/31/2021 12:00 AM

☒ **Take in Practice Mode**

Start: 09/17/2021 11:59 PM

End: 09/17/2021 11:59 PM

4. Select the **Start** and **End** dates. The system will automatically populate the **Start** and **End** date to match the **End** date of your assignment but can be changed to any date within the term.

Once this setting has been enabled, **Take in Practice Mode** can be accessed by instructors and students by clicking on the assignment and selecting **Take in Practice Mode** from the menu, see [Figure 192](#).

Figure 192: Select Take in Practice Mode

The screenshot shows the 'Assignments' page in Canvas LMS. A table lists assignments with columns: Assignment, Weight, Publish, Start, Due, End, Min, and Template. The 'Learning Expert TA' assignment is selected, and a context menu is open. The 'Take in Practice Mode' option is highlighted.

Assignment	Weight	Publish	Start	Due	End	Min	Template
Learning Expert TA	1	May 01, 2021 12:01 AM	Aug 05, 2021 12:01 AM	Aug 19, 2021 11:59 PM	Sep 03, 2021 11:59 PM		Instructor Default
Create Assignment			AM Aug 16, 2021 12:01 AM	Sep 14, 2021 11:59 PM	Sep 17, 2021 11:59 PM		Homework
Edit Assignment			AM Oct 05, 2021 12:01 AM	Oct 12, 2021 11:59 PM	Oct 12, 2021 11:59 PM		Homework
Delete Assignment			AM Oct 08, 2021 12:01 AM	Oct 15, 2021 11:59 PM	Oct 15, 2021 11:59 PM		Instructor Default
Take Assignment			AM Oct 19, 2021 12:01 AM	Oct 19, 2021 11:59 PM	Oct 19, 2021 11:59 PM	60	Quizzes

Context menu options for 'Learning Expert TA':

- View Printable Assignment
- Copy Assignment
- View Grade Report (shows your detailed work)
- Manage Grades (Grade Manually)
- View Grades (Spreadsheet)
- View Assignment Solutions
- Take in Practice Mode**
- Export Assignment Text Answers
- Assignment Analytics

If **Take in Practice Mode** is selected before the set **Start** date, a message like the one in [Figure 193](#) will appear. To exit this message, click on **Class Management** in the upper left-hand corner.

Figure 193: Practice Mode Message Before Start Date

The screenshot shows a message box with the following text:

Class Management | Help

[Practice Mode] Assignment: HW1

This assignment is currently configured to allow practice mode starting at 9/17/2021 11:59:00 PM until 9/17/2021 11:59:00 PM

If **Take in Practice Mode** is selected after the **End** date, a message like the one in [Figure 194](#) will appear. To exit this message, click on **Class Management** in the upper left-hand corner.

Figure 194: Take in Practice Mode After End Date Message

The screenshot shows a message box with the following text:

Class Management | Instructor | Help

[Practice Mode] Assignment: HW1

This assignment is currently configured to allow practice mode starting at 8/23/2021 11:59:00 PM until 8/23/2021 11:59:00 PM

If **Take in Practice Mode** is selected after the selected **Start** date and before the selected **End** date, you will see the practice mode assignment like in **Figure 195**. **Practice Mode** looks and functions just like **Take Assignment** except that in **Practice Mode** you see a red **[Practice Mode]** next to the assignment name in the upper left-hand corner and the grade does not count toward or against your class grade. To exit **Practice Mode**, click on **Class Management** in the upper left-hand corner of the page.

Figure 195: Practice Mode Assignment

The screenshot shows the Expert TA interface in Practice Mode. At the top, there's a navigation bar with "Class Management | Instructor | Help". Below it, a yellow box highlights "[Practice Mode] Assignment: HW1". The main content area displays a problem: "(5%) Problem 1: Assuming the mass of an average cell is ten times the mass of a bacterium (which is 10^{-15} kg):". Below the problem, there's a section for "50% Part (a)" asking to calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg. A text input field shows "cells/hummingbird =". To the right of the input field is a "Grade Summary" box showing "Deductions 0%" and "Potential 100%". Below the input field is a calculator with various functions like sin(), cos(), tan(), etc. At the bottom, there are buttons for "Submit", "Hint", "Feedback", and "I give up!".

Export Assignment Text Answers

This function will allow you to export students' answers to an assignment or to part of the assignment. This functionality can be accessed from the **Class Management** page by clicking on the assignment and selecting **Export Assignment Text Answers** from the menu, see **Figure 196**.

Figure 196: Select Assignment Text Answers

The screenshot shows the "Assignments" table in the Expert TA interface. The table has columns for Assignment, Weight, Publish, Start, Due, End, Min, and Template. The first row is "Learning Expert TA" with a weight of 1, published on May 01, 2021, and due on Aug 19, 2021. A dropdown menu is open for the "Learning Expert TA" assignment, showing various options. The option "Export Assignment Text Answers" is highlighted in yellow.

Assignment	Weight	Publish	Start	Due	End	Min	Template
Learning Expert TA	1	May 01, 2021 12:01 AM	Aug 05, 2021 12:01 AM	Aug 19, 2021 11:59 PM	Sep 03, 2021 11:59 PM		Instructor Default
Create Assignment			Aug 16, 2021 12:01 AM	Sep 14, 2021 11:59 PM	Sep 17, 2021 11:59 PM		Homework
Edit Assignment			Oct 05, 2021 12:01 AM	Oct 12, 2021 11:59 PM	Oct 12, 2021 11:59 PM		Homework
Delete Assignment			Oct 08, 2021 12:01 AM	Oct 15, 2021 11:59 PM	Oct 15, 2021 11:59 PM		Instructor Default
Take Assignment			Oct 19, 2021 12:01 AM	Oct 19, 2021 11:59 PM	Oct 19, 2021 11:59 PM	60	Quizzes

Once **Export Assignment Text Answers** is selected, you will see a new screen, like [Figure 197](#).

Figure 197: Export Assignment Text Answers

Class Management | Instructor | Help

Physics Demo - Learning Expert TA

Export to: CSV

Parts Selected: [None](#)

☐ **Assignment (All Parts)**

☐ **Prob 1: (Learning Expert TA 01 (Basic Navigation))**

☐ **Part a:** In Expert TA, deductions for things like incorrect submissions, accessing hints, and accessing feedback are decided by who?

☐ **Part b:** Where is the student practice area?

☐ **Part c:** Once an assignment is complete, how am I able to view the detailed work that I did?

☐ **Prob 2: (Learning Expert TA 02 (Symbolic Answers))**

☐ **Part a:** Please indicate whether the following statements are True or False. Hints and feedback are both available to you during an assignment. Hints are more generic and Feedback is specific to my most recent incorrect submission attempt.

☐ **Part b:** Expert TA counts mathematically equivalent answers as correct. The answer to this question is $y = x + 3$. You can enter a non-simplified answer and still be counted correct. Use the area below to enter the answer in another way. For example you could try entering something like " $3 + x$ " or " $3 - x(-1)$ ".

☐ **Part c:** Order of Operations is one thing that you do need to be careful about, particularly with division. The correct answer for this question is $y = a/(b + c)$. Please note that " $a/b + c$ " would not be graded as correct, since order of operations dictates that you first divide a by b, and then add c. As an analogy, try typing " $=1/2+4$ " into Excel. You will see the result is 4.5 (i.e. $y = 1/2 + 4 = 0.5 + 4 = 4.5$). Entering " $y = 1/(2+4)$ " will be calculated to 1/6, or 0.16666. Please keep order of operations in mind as you enter symbolic answers. Mathematical equivalents are still detected. Please enter the correct answer, and feel free to try something like " $a/(b - c(-1))$ ".

☐ **Prob 3: (Learning ETA 01 (alt))**

☐ **Part b:** A common question type in Expert TA will involve you entering a numeric answer. *The correct answer here is 15.25.* Expert TA has a buffer for numerical problems, so you don't have to be "perfect" to be counted correct. The buffer is + or - 3% universally across the system. For example, you might enter 15.3 instead of 15.25. And that will still be counted correct. You can enter your answer by either typing on your keyboard, or clicking the answer box title "Answer" below. With 15.25 or 15.3 entered, click the "Go" button and then continue on to the next question.

Next, select either **Assignment (All Parts)** or you can select one or more specific problem or problem parts (**Figure 198**). When you are finished selecting the problems or problem parts you want to export, click the **Save & Search** button at the bottom of the page.

Figure 198: Export Assignment Text Answers - Select Problems

Class Management | Instructor | Help

Physics Demo - Learning Expert TA Search Clear Export to: CSV Save

Parts Selected: Prob 1: (Learning Expert TA 01 (Basic Navigation)) Part a, Prob 1: (Learning Expert TA 01 (Basic Navigation)) Part b, Prob 1: (Learning Expert TA 01 (Basic Navigation)) Part c, Prob 2: (Learning Expert TA 02 (Symbolic Answers)) Part a, Prob 2: (Learning Expert TA 02 (Symbolic Answers)) Part b, Prob 2: (Learning Expert TA 02 (Symbolic Answers)) Part c, Prob 3: (Learning Expert TA 03 (Numerical Answers)) Part a, Prob 3: (Learning Expert TA 03 (Numerical Answers)) Part b, Prob 3: (Learning Expert TA 03 (Numerical Answers)) Part c

☒ Assignment (All Parts)

☒ Prob 1: (Learning Expert TA 01 (Basic Navigation))

☒ Part a: In Expert TA, deductions for things like incorrect submissions, accessing hints, and accessing feedback are decided by who?

☒ Part b: Where is the student practice area?

☒ Part c: Once an assignment is complete, how am I able to view the detailed work that I did?

☒ Prob 2: (Learning Expert TA 02 (Symbolic Answers))

☒ Part a: Please indicate whether the following statements are True or False. Hints and feedback are both available to you during an assignment. Hints are more generic and Feedback is specific to my most recent incorrect submission attempt.

☒ Part b: Expert TA counts mathematically equivalent answers as correct. The answer to this question is $y = x + 3$. You can enter a non-simplified answer and still be counted correct. Use the area below to enter the answer in another way. For example you could try entering something like " $3 + x$ " or " $3 - x(-1)$ ".

☒ Part c: Order of Operations is one thing that you do need to be careful about, particularly with division. The correct answer for this question is $y = a/(b + c)$. Please note that " $a/b + c$ " would not be graded as correct, since order of operations dictates that you first divide a by b, and then add c. As an analogy, try typing " $=1/2+4$ " into Excel. You will see the result is 4.5 (i.e. $y = 1/2 + 4 = 0.5 + 4 = 4.5$). Entering " $y = 1/(2+4)$ " will be calculated to 1/6, or 0.16666. Please keep order of operations in mind as you enter symbolic answers. Mathematical equivalents are still detected. Please enter the correct answer, and feel free to try something like " $a/(b - c(-1))$ ".

☒ Prob 3: (Learning Expert TA 03 (Numerical Answers))

☒ Part a: A common question type in Expert TA will involve you entering a numeric answer. *The correct answer here is 15.25.* Expert TA has a buffer for numerical problems, so you don't have to be "perfect" to be counted correct. The buffer is + or - 3% universally across the system. For example, you might enter 15.3 instead of 15.25. And that will still be counted correct. You can enter your answer by either typing on the keyboard, or by using the calculator. If you use the calculator, click the "OK" button and then click the "Save & Search" button.

Save & Search

Figure 199: Export Assignment Text Answers Warning Message

After you have clicked on the **Save & Search** button, a warning message, like **Figure 199**, will appear. Acknowledge the message by clicking on the **OK** button and do not navigate away from this page or hit any button until the operation is completed.

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This action may take several minutes, depending on the size of the data set to be displayed or exported.

Please do not navigate away from this page or hit any button until this operation is completed.

OK

When the operation completes, you will see a screen, like [Figure 200](#).

Figure 200: Export Assignment Text Answers Results

Class Management | Instructor | Help

Physics Demo - HW1

Search Clear

Export to: CSV Save

Parts Selected: Prob 1: (1.1.7) Part a, Prob 1: (1.1.7) Part b, Prob 2: (1.1.1) Part a, Prob 3: (1.1.10) Part a, Prob 3: (1.1.10) Part b, Prob 3: (1.1.10) Part c, Prob 3: (1.1.10) Part d, Prob 3: (1.1.10) Part e, Prob 4: (1.1.11) Part a, Prob 4: (1.1.11) Part b, Prob 4: (1.1.11) Part c, Prob 4: (1.1.11) Part d, Prob 4: (1.1.12) Part a, Prob 4: (1.1.12) Part b, Prob 4: (1.1.12) Part c, Prob 4: (1.1.12) Part d, Prob 4: (1.1.13)

These columns can be sorted

Last First Email StudentNo Section

Last	First	Email	StudentNo	Section	Prob 01 Part a Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.	Prob 01 Part b Calculate the number of cells in a human, assuming they have a mass of 10^2 kg.	Prob 02 Part a What is the area of the circle in cm^2 ?	Prob 03 Part a 11 mg	Prob 03 Part b 267 Tg	Pr Pa
Baggins	Frodo	frodo@lotr.com	1	101	1	1	2	1	8	9
Brandybuck	Merry	merry@lotr.com	2	102	5	68	94	58	12	41
Gamgee	Samwise	samwise@lotr.com	3	103	8356	677	36695	741	3685	145
Lady of the Wood	Galadriel	galadriel@lotr.com	6	103	15	58	36585	485	345	463
Lord of Rivendell	Elrond	elrond@lotr.com	8	102	No Answer	No Answer	No Answer	No Answer	No Answer	No
Rivendell	Arawen	arawen@lotr.com	9	101	No Answer	No Answer	No Answer	No Answer	No Answer	No
Strider	Aragorn	aragorn@lotr.com	7	103	No Answer	No Answer	No Answer	No Answer	No Answer	No
student	test	student1@instructor.com	1		No Answer	No Answer	No Answer	No Answer	No Answer	No
Taylor	Harmony	harmony@theexpertta.com_StudentView			No Answer	No Answer	No Answer	No Answer	No Answer	No
The Grey	Gandalf	gandalf@lotr.com	5	102	No Answer	No Answer	No Answer	No Answer	No Answer	No
Took	Pippen	pippen@lotr.com	4	101	No Answer	No Answer	No Answer	No Answer	No Answer	No

- Use the drop-down to select your file type and click the **Save** button to export this information.
- The search box can be used to limit your results to a specific student or section by typing a name, email, student number, or section and clicking the Search button, ([Figure 201](#)).

Figure 201: Export Assignment Text Answers - Search

Class Management | Instructor | Help

Physics Demo - HW1

frodo Search Clear

Export to: CSV Save

Parts Selected: Prob 1: (1.1.7) Part a, Prob 1: (1.1.7) Part b, Prob 2: (1.1.1) Part a, Prob 3: (1.1.10) Part a, Prob 3: (1.1.10) Part b, Prob 3: (1.1.10) Part c, Prob 3: (1.1.10) Part d, Prob 3: (1.1.10) Part e, Prob 4: (1.1.11) Part a, Prob 4: (1.1.11) Part b, Prob 4: (1.1.11) Part c, Prob 4: (1.1.11) Part d, Prob 4: (1.1.12) Part a, Prob 4: (1.1.12) Part b, Prob 4: (1.1.12) Part c, Prob 4: (1.1.12) Part d, Prob 4: (1.1.13)

Last	First	Email	StudentNo	Section	Prob 01 Part a Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.	Prob 01 Part b Calculate the number of cells in a human, assuming they have a mass of 10^2 kg.	Prob 02 Part a What is the area of the circle in cm^2 ?	Prob 03 Part a 14 mg	Prob 03 Part b 443 Tg	Prob 03 Part c 47 ng	Prob 03 Part d 4.8 g	Prob 03 Part e 8.8 Pg	Prob 04 Part a What is 3.24×10^{-7} in units of Mm?	Prob 04 Part b What is 3.9×10^{-5} in units of mg?	
Baggins	Frodo	frodo@lotr.com	1	101	1	1	2	1	8	9	4	5	9	No Answer	No Answer

- C. Clicking on the **Clear** button, will clear all search data including selected problems or problem parts and any results associated to them (**Figure 202**).

Figure 202: Export Assignment Text Answers - Clear Button

The screenshot shows the top navigation bar with 'Class Management | Instructor | Help'. Below it, the page title is 'Physics Demo - HW1'. There is a search input field, a 'Search' button, and a 'Clear' button. To the right, there is an 'Export to:' dropdown menu set to 'CSV' and a 'Save' button. Below these elements, there is a table with columns 'Last', 'First', and 'Email', each with a dropdown arrow. The table is currently empty, and a message 'No Data. Please select the parts and refine search criteria.' is displayed at the bottom.

- D. Click on the ▼ to select or deselect problems and problem parts, like **Figure 203**.

Figure 203: Export Assignment Text Answers - Change Search

The screenshot shows the same top navigation bar and page title as Figure 202. The search input field, 'Search' button, and 'Clear' button are present. The 'Export to:' dropdown menu is set to 'CSV', and the 'Save' button is visible. Below these elements, there is a section titled 'Parts Selected: None'. A dropdown arrow is visible next to this title. Below the dropdown, there is a list of problems and parts with checkboxes for selection. The list is as follows:

- ☐ Assignment (All Parts)
 - ☒ Prob 1: (1.1.7)
 - ☒ Part a: Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.
 - ☒ Part b: Calculate the number of cells in a human, assuming they have a mass of 10^2 kg.
 - ☐ Prob 2: (1.1.1)
 - ☐ Part a: What is the area of the circle in cm^2 ?
 - ☐ Prob 3: (1.1.10)
 - ☐ Part a: 21 mg
 - ☐ Part b: 669 Tg
 - ☐ Part c: 39 ng
 - ☐ Part d: 8.9 g
 - ☐ Part e: 5.1 Pg
 - ☐ Prob 4: (1.1.11)
 - ☐ Part a: What is 5.23×10^7 m in units of Mm?
 - ☐ Part b: What is 0.0082 m in units of mm?
 - ☐ Part c: What is 4.2×10^{-11} m in units of pm?
 - ☐ Part d: What is 1.48×10^{13} m in units of Tm.
 - ☐ Prob 4: (1.1.12)
 - ☐ Part a: 51 Tm

At the bottom right of the list, there is a 'Save & Search' button.

To exit the **Export Assignment Text Answers**, click on **Class Management** in the upper left-hand corner of the screen.

Assignment Analytics

Expert TA now offers **Assignment Analytics** so that you can see how your class performed on an assignment. To access **Assignment Analytics**, click on the assignment on the **Class Management** page and then select **Assignment Analytics** from the menu (**Figure 204**).

Figure 204: Select Assignment Analytics

The screenshot shows the 'Assignments' table in Expert TA. The 'Learning Expert TA' assignment is selected, and its dropdown menu is open. The 'Assignment Analytics' option is highlighted at the bottom of the menu. The table lists various assignments with their weights, publish dates, start/end times, and templates.

Assignment	Weight	Publish	Start	Due	End	Min	Template
Learning Expert TA	1	May 01, 2021 12:01 AM	Aug 05, 2021 12:01 AM	Aug 19, 2021 11:59 PM	Sep 03, 2021 11:59 PM		Instructor Default
Create Assignment			AM Aug 16, 2021 12:01 AM	Sep 14, 2021 11:59 PM	Sep 17, 2021 11:59 PM		Homework
Edit Assignment			AM Oct 05, 2021 12:01 AM	Oct 12, 2021 11:59 PM	Oct 12, 2021 11:59 PM		Homework
Delete Assignment			AM Oct 08, 2021 12:01 AM	Oct 15, 2021 11:59 PM	Oct 15, 2021 11:59 PM		Instructor Default
Take Assignment			AM Oct 19, 2021 12:01 AM	Oct 19, 2021 11:59 PM	Oct 19, 2021 11:59 PM	60	Quizzes

Dropdown menu options for 'Learning Expert TA':

- View Printable Assignment
- Copy Assignment
- View Grade Report (shows your detailed work)
- Manage Grades (Grade Manually)
- View Grades (Spreadsheet)
- View Assignment Solutions
- Take in Practice Mode
- Export Assignment Text Answers
- Assignment Analytics**

After clicking **Assignment Analytics**, you will see a screen like **Figure 205**.

Figure 205: Assignment Analytics Screen

The screenshot shows the 'Assignment Analytics - Problems Success Metrics' screen. It includes settings for status (Critical, Warning, Good) and grade thresholds, as well as flagged parts settings. The main table lists 10 problems with their success rates and feedback counts.

Status Settings:

- Critical: Grade < 65
- Warning: 65 <= Grade < 80
- Good: Grade >= 80

Flagged Parts Settings:

- First Submission Correct % < 50
- All Submissions Correct % < 75

Assignment Analytics - Problems Success Metrics

Status	Problem #	Success Rate	First Attempt	All Attempts	Flagged Parts
!	1#:1.1.7	0%			2 Parts: a, b
!	2#:1.1.1	0%			1 Part: a
!	3#:1.1.10	0%			5 Parts: a, b, c, d, e
!	4#:1.1.11	0%			4 Parts: a, b, c, d
!	4#:1.1.12	0%			4 Parts: a, b, c, d
!	4#:1.1.13	0%			4 Parts: a, b, c, d
!	4#:1.1.14	0%			2 Parts: a, b
!	5#:1.2.3	43%			1 Part: a
!	6#:1.2.1 (alt)	0%			2 Parts: a, b
!	7#:1.2.3	13%			1 Part: a
!	8#:1.2.8	0%			1 Part: a
!	9#:1.2.10	0%			1 Part: a
!	10#:1.3.12	0%			4 Parts: a, b, c, d

Feedback Details:

- 1#:1.1.7 a:** Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg. Answer Count: 5. Feedback: No Answer Given.
- 1#:1.1.7 b:** Calculate the number of cells in a human, assuming they have a mass of 10^2 kg. Answer Count: 5. Feedback: No Answer Given.
- 2#:1.1.1 a:** What is the area of the circle in cm^2 ? Feedback Count: 5. Feedback: No specific feedback available.
- 3#:1.1.10 a:** 15 mg. Feedback Count: 4. Feedback: No Answer Given.
- 3#:1.1.10 b:** 674 Tg. Feedback Count: 4. Feedback: No Answer Given.
- 3#:1.1.10 c:** 23 ng. Feedback Count: 4. Feedback: No Answer Given.
- 3#:1.1.10 d:** 2.9 g. Feedback Count: 4. Feedback: No Answer Given.

To use this feature, first set the **Critical** and **Good** range in the **Status Settings** (see Figure 206). Also, set the **First Submission Correct %** and **All Submissions Correct %** in the **Flagged Parts Settings**. When finished making any adjustments to the settings click the **Update** button to apply the changes or **Cancel** button to return to the **Class Management** screen.

Figure 206: Assignment Analytics - Change Settings

Class Management | Instructor | Help

Class: Physics Demo
Assignment: HW1

Status Settings

Critical: Grade < 65
Warning: 65 <= Grade < 80
Good: Grade >= 80

Flagged Parts Settings

First Submission Correct % < 50
All Submissions Correct % < 75

Update Cancel

The bottom part of the screen (Figure 207) shows the results of your settings from the top of the page (Figure 206). The left-hand side of the screen shows the **Flagged** problems, and the right-hand side of the screen shows a detailed breakdown of each **Flagged** problem.

Figure 207: Assignment Analytics Results

Status	Problem #	Success Rate	First Attempt All Attempts	Flagged Parts
!	1#:1.1.7	0%		2 Parts: a, b
!	2#:1.1.1	0%		1 Part: a
!	3#:1.1.10	0%		5 Parts: a, b, c, d, e
!	4#:1.1.11	0%		4 Parts: a, b, c, d
!	4#:1.1.12	0%		4 Parts: a, b, c, d
!	4#:1.1.13	0%		4 Parts: a, b, c, d
!	4#:1.1.14	0%		2 Parts: a, b
!	5#:c1.2.3	43%	43%	1 Part: a
!	6#:1.2.1 (alt)	0%		2 Parts: a, b
!	7#:1.2.3	13%		1 Part: a
!	8#:1.2.8	0%		1 Part: a
!	9#:1.2.10	0%		1 Part: a
!	10#:1.3.12	0%		4 Parts: a, b, c, d

Problem #	Question	Answer	Answer Count	Feedback Count
1#:1.1.7 a:	Calculate the number of cells in a hummingbird, assuming it has a mass of 10^{-2} kg.	Answer		
	No Answer Given		5	
	cells/hummingbird = 1		1	
	cells/hummingbird = 15		1	
	cells/hummingbird = 5		1	
	cells/hummingbird = 8356		1	
1#:1.1.7 b:	Calculate the number of cells in a human, assuming they have a mass of 10^2 kg.	Answer		
	No Answer Given		5	
	cells/human = 1		1	
	cells/human = 58		1	
	cells/human = 677		1	
	cells/human = 68		1	
2#:1.1.1 a:	What is the area of the circle in cm^2 ?	Feedback		
	No Answer Given		5	
	No specific feedback available		4	
3#:1.1.10 a:	15 mg	Feedback		
	No Answer Given		4	
	No specific feedback available		4	
3#:1.1.10 b:	674 Tg	Feedback		
	No Answer Given		4	
	No specific feedback available		4	
3#:1.1.10 c:	23 ng	Feedback		
	No Answer Given		4	
	No specific feedback available		4	
3#:1.1.10 d:	2.9 g	Feedback		
	No Answer Given		4	

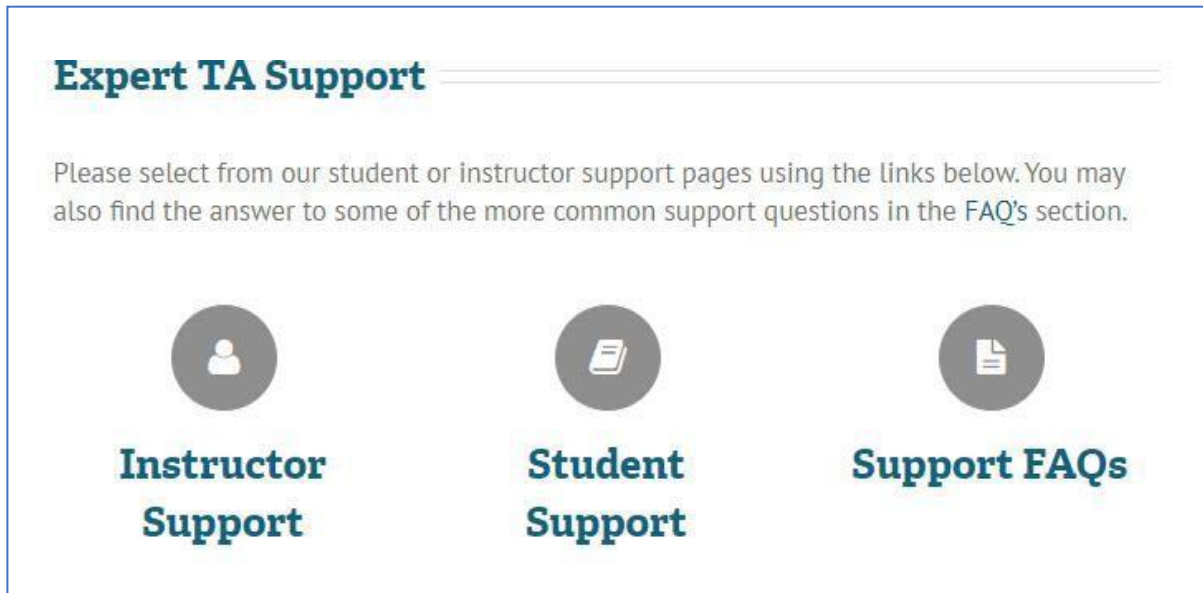
A. Flagged problems

B. Detailed breakdown of the flagged problems

Help

From the blue menu bar at the top of the screen, select [Help](#). This will take you to the screen in [Figure 208](#).

Figure 208: Help Screen



- **Instructor Support:** The instructor support area includes various documentation such as LMS Integration, the Instructor User Manual, tips on setting grade preferences, the Respondus Lockdown Browser User Manual, etc. It also includes a contact form that can be used to reach the Expert TA support team with any questions, comments, or concerns.
- **Student Support:** From this screen you can access videos and PDFs such as the Student User Manual that explain the most common help topics. If the help you are seeking is not included in this screen, you can send Expert TA an email for more personalized instruction by clicking on the blue email address.
- **Support FAQs:** This area includes our most frequently asked questions and the answers to those questions. It is split into three categories: **Product FAQs**, **Instructor FAQs**, and **Student FAQs**. These categories can be clicked on at the top of the screen to show only the respective FAQs.

Changing Your Password

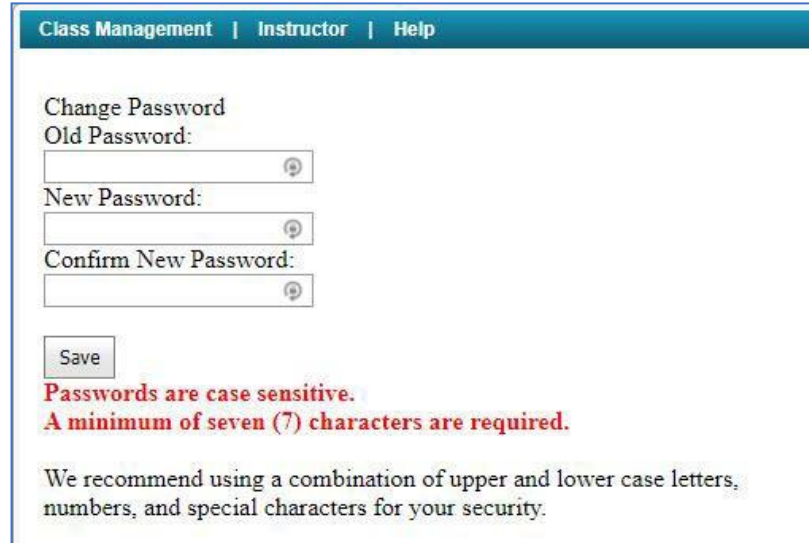
At the top of your screen, you will see your username and the words **My Account** and **Log Out** in black. If you hover your mouse over **My Account**, a drop-down will appear ([Figure 209](#)).

Figure 209: Select Change Password



Click on **Change Password** and the following screen, seen in **Figure 210**, will appear.

Figure 210: Change Your Password



The screenshot shows a web form titled "Change Password" within a navigation bar containing "Class Management", "Instructor", and "Help". The form includes three input fields: "Old Password:", "New Password:", and "Confirm New Password:", each with a password icon on the right. Below these fields is a "Save" button. A red warning message states: "Passwords are case sensitive. A minimum of seven (7) characters are required." Below the warning, a recommendation reads: "We recommend using a combination of upper and lower case letters, numbers, and special characters for your security."

Enter your current password, your new password, and confirm your new password. Click **Save** to save your password change or use your browser's back arrow key to exit without changing your password.

Logging Out

At the top of your screen, on the right-hand side, you will see your username and the words **My Account** and **Log Out** in black (**Figure 211**). Click on **Log Out** to exit Expert TA.

Figure 211: Log Out



Expert TA: Student Registration Instructions

An online version of the following set of instructions can be found here: <https://theexpertta.com/how-to-register/>

Step 1: Enter your registration link into your browser

Your instructor will provide you with a registration link that looks like this: <http://goeta.link/DEI56MO-82F156-I>

Figure 212: Initial Course Registration Page

Welcome to Expert TA!

We are excited about the coming semester and we hope that you are as well. Use the area below to complete the registration process and be added to the class listed below. If you have any questions about these steps you can click here for detailed instructions on the registration process. You can also contact us if you are having trouble.

Registration Information

Code: 82F156-I Role: Student
 Class Phy 101-001 : Description: Intro Physics I with Dr. Morton
 Wrong class? Click here to enter a new class code.

Step 2: Enter a valid email address.
 You must enter the address exactly the same in both fields for confirmation.
 Note: Most college and universities require you to use your college or university email address (i.e. not your Yahoo or Gmail account). Please use your university e-mail address unless your instructor has directed you otherwise.

Email Address:
 Confirm Email:

Enter the link into your browser and you will see the registration screen, see **Figure 212**. Check to see that your Class and Class Description match the class for which you are registering. **Note: This step applies to both first-time registrations and returning users registering for a new class.**

Step 2: Enter your email

At the bottom of this registration screen, **Figure 212**, you are asked to enter your email. Your email will serve as your username, so please remember which email address you use. You will only be able to log into Expert TA with the exact email you register with. Confirm your email address and click the Continue button to move on to the next step.

Step 3: Choose a password or Enter your Password

After entering your username (your email address), Expert TA will check to see if you have an account in the system.

- If you have previously registered with Expert TA before, the system will recognize your email and you will be prompted to enter your password, see **Figure 213**.
- If this is your first time registering with Expert TA, the system will likely not find a match for your email and you will be asked to choose a password and confirm your password, see **Figure 214**.

Your password must be at least seven characters in length, and we recommend including a mixture of upper-case and lower-case letters, numbers, and at least one special character (ex: #, !, \$, etc.). Click the **Continue** button to move on to the next step.

Figure 213: Enter Your Password

Registration Information

Code: 82F156-I Role: Student
 Class Phy 101-001 : Description: Intro Physics I with Dr. Morton
 Wrong class? Click here to enter a new class code.

User: example@exampleschool.edu existing user found.

Step 3: Enter a password. A valid password is required for the existing user to continue.
 Forgot your password click [Reset Password](#).

Password:

Figure 214: Choose Your Password

Registration Information

Code: 82F156-I Role: Student
 Class Phy 101-001 : Description: Intro Physics I with Dr. Morton
 Wrong class? Click here to enter a new class code.

User: example@exampleschool.edu new user.

Step 3: Enter a password. A new password consisting of a minimum of 7 characters is required. You must enter the password twice.
 For your security we recommend using upper and lower characters, numbers, and at least one non alphanumeric characters

Password:
 Confirm Password:

Figure 215: Complete Registration

Registration Information

Code: 82F156-I Role: Student
 Class Phy 101-001 : Description: Intro Physics I with Dr. Morton
 Wrong class? Click [here](#) to enter a new class code.

User: example@example.school.edu new user.
 Password Confirmed!

Step 4: Update User Profile

First Name:
 Last Name:
 Student ID/NO:
 Section:
 B02

Terms of Service Agreement

The following terms establish an agreement between you, the user, and Expert TA, LLC. Access to our website and the services provided therein are contingent upon your acceptance of the terms in this agreement. If you do not agree with or do not agree to adhere to the terms in this agreement, you should not register for our service. Expert TA may change the Terms of Service from time to time. At the time these changes are made, Expert TA will make available the updated Terms of Service on our website and will include the new terms in the registration process. By accepting these terms, you understand and agree that your

☒ I accept and agree to the Terms of Service Agreement

Step 4: Update your User Profile

The next screen, [Figure 215](#), contains your user profile information. Your **First Name** and **Last Name** are required fields. Your school may also require you to enter your **Student ID**. If this field is required, enter your student ID number provided by your school. Please take care while entering your student ID number as your instructor needs this to keep grades organized across sections. **Note: If you have registered for an Expert TA class before, this information will already be filled in for you, but you are free to make changes, if needed.** Your instructor may have set up your class with sections. Open the **Section** drop-down and select your section from the list, if available.

Lastly, read the **Terms of Service Agreement** and then check the checkbox. By checking the checkbox, you are saying that you have read, accept, and agree to the **Terms of Service Agreement**. When you are finished, click on the **Continue** button to complete your registration and move on to the payment screen.

Step 5: Payment

The next screen you see is the payment screen, shown in [Figure 216](#). **Note: You will not be able to do homework until you complete the payment process.**

First, click the checkbox next to your class and then select one of the following options:

Figure 216: Payment Screen

Class Management | Help

Welcome to Expert TA!

Payment Information
 You must either purchase the materials, or enact the 14 day free trial, before any assignments can be completed. Please check the box beside the appropriate material below and then choose a payment method.

#	Class Name	Description	Start Date	End Date	Price
<input checked="" type="checkbox"/>	Phy 101-001	Expert TA's First Edition Physics Content	8/1/2019 12:00:00 AM	7/31/2025 12:00:00 AM	\$32.50

Total: \$32.50

Price Transparency
 The price listed above is associated with purchasing directly from Expert TA online. Bookstores make their own pricing decisions. Please Note: If you purchase an access code from the bookstore it will be higher than the price listed above.

Pay Online Securely with a Credit Card
 Pay online securely via Authorize.net, at the price listed above.

☐ Credit Card ☒ 14-Day Trial *

Pay with an Access Code from the Bookstore*
 Please Note: The price may be higher than what is listed above, and that not all campus bookstores carry Expert TA access codes.

Access previously paid content
 I acknowledge that I will not have access to any of the class contents that I have not paid for. Any other access would require payment or trial access.

A: 14-Day Trial – Expert TA offers a free 14-day trial for each class. At the end of the 14-day trial, you will be prompted for payment to continue accessing your class.

B: Credit Card – This will take you to a secure cart where you can complete your purchase with a credit card. See 14-Day Trial

If you select the 14-Day Trial option, you will be taken to your class. The payment screen will appear again in 14 days where you will then be required to pay with a credit card or with an access code to continue with your class. You can

pay anytime by clicking on the blue words **Upgrade to Full Version** at the top of your screen after you log in ([Figure 217](#)).

Payment with Credit Card below for additional details.

C: **Access Code** – Access codes can be purchased at your bookstore, if available. See Payment with Access Code below for additional details.

14-Day Trial

If you select the 14-Day Trial option, you will be taken to your class. The payment screen will appear again in 14 days where you will then be required to pay with a credit card or with an access code to continue with your class. You can pay anytime by clicking on the blue words **Upgrade to Full Version** at the top of your screen after you log in (Figure 217).

Figure 217: Upgrade to Full Version

Payment with Credit Card

If you are paying with a credit card, you will click on the **Credit Card** button on the payment screen, Figure 216 above, and you will be taken to a secure cart to check-out. **Note: For your security Expert TA never takes your credit card information and does not manage the transaction directly.**

Figure 218: Secure Cart for Credit Card Transaction

The secure cart is run by Authorize.net which is an industry leader in secure payments and used by tens of thousands of companies. Figure 218 is an example of what the secure cart for processing credit card transactions looks like.

Note: the amount displayed could be different depending on the cost for your class.

All fields are required except for a **Phone Number**. Pay careful attention when entering your address information. This information must match the billing information on file with your card's financial institution (this is normally your permanent address and not your dorm address). If the zip code entered here does not match, the transaction will not process. This is a security measure to prevent unauthorized purchases in the event of theft.

Preface

▼ 1. Mechanics

- ▶ 1. Units and Measurement
- ▶ 2. Vectors
- ▶ 3. Motion Along a Straight Line
- ▶ 4. Motion in Two and Three Dimensions
- ▼ 5. Newton's Laws of Motion

- 1. Introduction
- 2. Forces

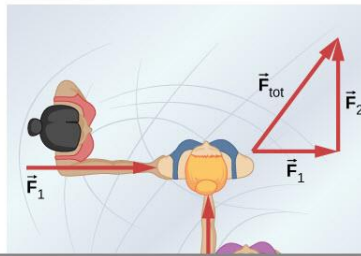
- 3. Newton's First Law
- 4. Newton's Second Law
- 5. Mass and Weight
- 6. Newton's Third Law
- 7. Common Forces
- 8. Drawing Free-Body Diagrams
- ▶ 6. Applications of Newton's Laws
- ▶ 7. Work and Kinetic Energy
- ▶ 8. Potential Energy and Conservation of Energy
- ▶ 9. Linear Momentum and Collisions
- ▶ 10. Fixed-Axis Rotation
- ▶ 11. Angular Momentum
- ▶ 12. Static Equilibrium and Elasticity

Newton also discovered the law of gravity, invented calculus, and made great contributions to the theories of light and color.

Working Definition of Force

Dynamics is the study of the forces that cause objects and systems to move. To understand this, we need a working definition of force. An intuitive definition of force—that is, a push or a pull—is a good place to start. We know that a push or a pull has both magnitude and direction (therefore, it is a vector quantity), so we can define force as the push or pull on an object with a specific magnitude and direction. Force can be represented by vectors or expressed as a multiple of a standard force.

The push or pull on an object can vary considerably in either magnitude or direction. For example, a cannon exerts a strong force on a cannonball that is launched into the air. In contrast, Earth exerts only a tiny downward pull on a flea. Our everyday experiences also give us a good idea of how multiple forces add. If two people push in different directions on a third person, as illustrated in [Figure 5.3](#), we might expect the total force to be in the direction shown. Since force is a vector, it adds just like other vectors. Forces, like other vectors, are represented by arrows and can be added using the familiar head-to-tail method or trigonometric methods. These ideas were developed in [Vectors](#).



Free-body diagram

