

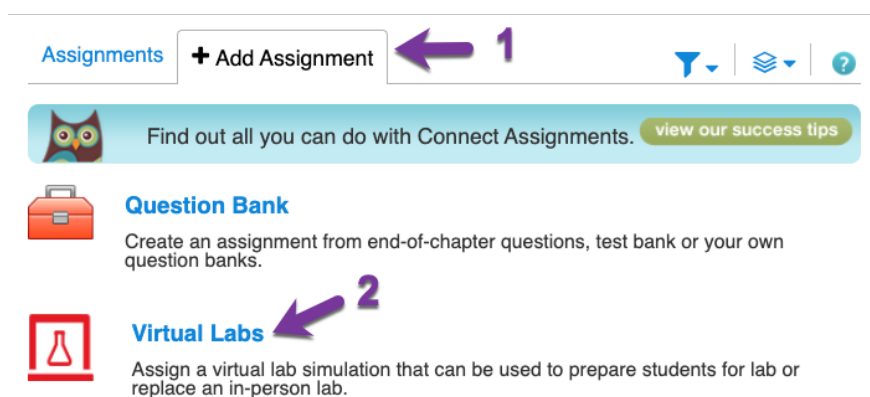


## How to Guide for Instructors

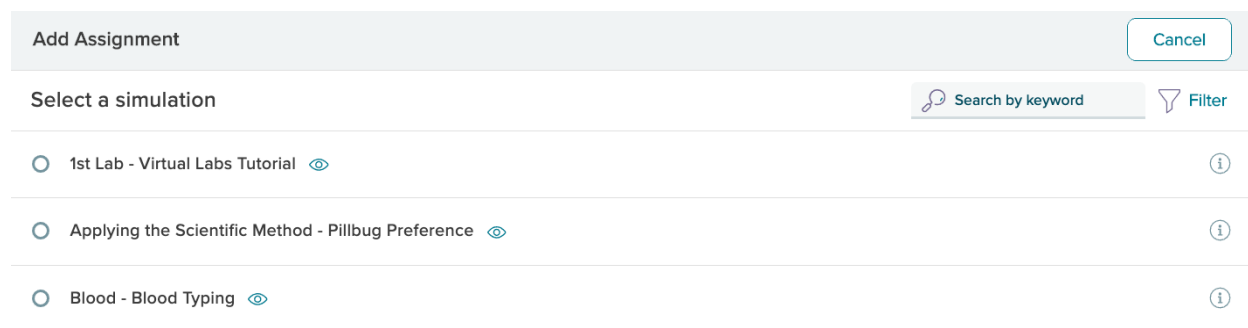
This document was designed to help instructors assign a Connect Virtual Lab simulation, extend due dates, see reports, and create assignments for pre-lab or post-lab. Instructors should also reference the document designed for student use: “Student Information for Connect Virtual Labs” for more specific information on the user experience.

### Creating a Virtual Lab assignment:

- From your Connect course home page,
  - 1) Select the “+ Add Assignment” option
  - 2) Select the “Virtual Labs” assignment type



- From the Add Assignment screen, you will be able to select one lab simulation to assign (you may only include one simulation per assignment).
- Search for specific labs in the upper right corner using the “Search by keyword” entry box, or click “Filter” to display available category tags.

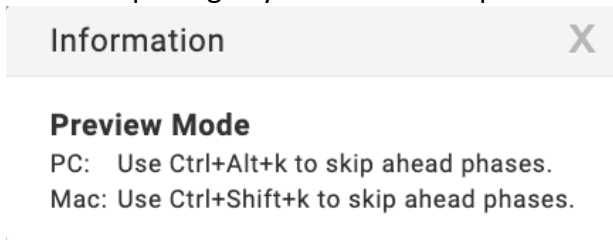


- Preview a simulation by clicking the “eyeball” icon to the right of the simulation name.

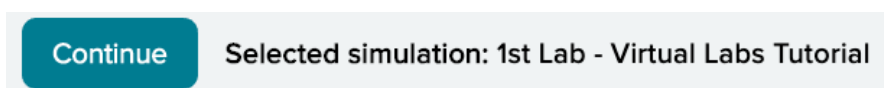
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- Once an instructor navigates to Phase 1 of the simulation, they will see the following pop-up message, which allows an instructor to skip ahead phase by phase without completing any or all of the steps in each phase.



- To choose a simulation to assign, click the radio button to the left of the simulation name.

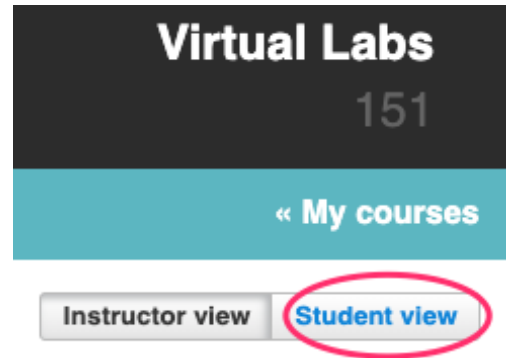


- Click “Continue” in the lower left corner after you have made your selection.
  - Tip: Copy the name of the simulation. You will paste it into the assignment name field on the next screen:
- Name your assignment, provide the due date and time, the points allotted for the assignment, and the number of attempts then click “Assign.”
  - Tip: Paste the name of the simulation that you copied on the last screen in the Assignment Name field.

#### Set Up Policies

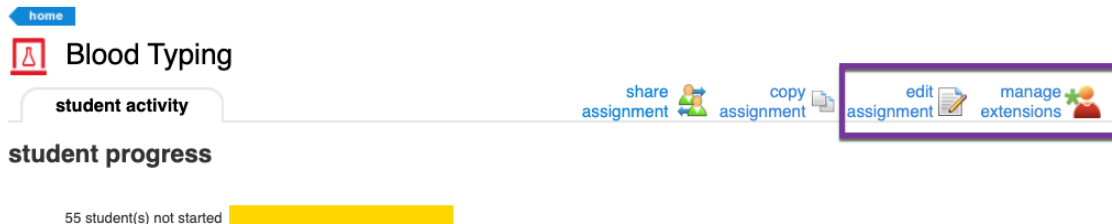
- **Important** – Assign the simulation “A Virtual Labs Tutorial” to students first. Have them complete it before any other simulation, so they are aware and taught all the features found within each Virtual Labs simulation.

- **All instructors** should also preview their Connect course as a student and complete “A Virtual Labs Tutorial”. Go to the top right corner of the Connect home page and select “Student view”.



### Extending the due date for a Virtual Labs assignment

- When the assignment reaches the due date, the in-progress assignment attempt auto-submits for the student.
- An instructor can extend the due date of a Virtual Labs assignment **before** the due date, by simply using “edit assignment” to change the due date for all students, or “manage extensions” to change the due date for individual students.



- If the instructor extends the due date **after** the initial due date passes, and the assignment is only set up for one attempt, students will not be able to complete the assignment because their first attempt was auto-submitted on the due date.
  - In this case, the instructor can edit the assignment to extend the due date and add additional attempts for all students.

- 1. Click on the assignment itself from the Connect homepage

Virtual Labs				
	Virtual Labs Tutorial		1/31/2020-5/25/2020	
	Cardiovascular - Pulse Rate		3/18/2020-5/11/2020	
	Diffusion Across a Selectively Permeable Membrane		1/27/2020-11/27/2020	
	How Enzymes Work - Effect of Temperature		1/30/2020-5/4/2020	
	Blood - Blood Typing		3/2/2020-5/29/2020	
	Nervous System - Demonstrate Monosynaptic Reflexes		1/31/2020-5/29/2020	

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- 2. Click on “edit assignment”

home

Cardiovascular - Pulse...

student activity

student progress

53 student(s) not started

2 student(s) submitted

share assignment copy assignment edit assignment manage extensions

- 3. Change the number of attempts and due date, then click assign

Set Up Policies

Assignment Name: \*

Cardiovascular - Pulse Rate

Start Date:

03/18/2020 11:42pm US/Eastern

Due Date: \*

05/11/2020 11:59pm US/Eastern

Score: \*

10

Assignment Attempts Allowed:

1

2

3

Unlimited

Cancel Assign

- If the instructor needs to extend the due date or add an additional attempt for an **individual** student **after** the initial due date passes, the instructor can use the manage extensions option.
- 1. Click on the assignment itself from the Connect homepage
- 2. Click on “manage extensions”

home

Cardiovascular - Pulse...

student activity

student progress

53 student(s) not started

2 student(s) submitted

share assignment copy assignment edit assignment manage extensions

home

- 3. Extend the due date for selected student(s) and add additional attempt(s), then click save

[← student activity](#)

## extensions

Add, edit, or remove student extensions for this assignment only.

## Cardiovascular - Pulse Rate

### policies

start: 03/18/20 @ 11:42p

due: 05/11/20 @ 11:59p

### current extensions

[+ add more extensions](#)

student	extension	
t, shaw	start: 03/18/2020 11:42p US/Eastern due: 10/08/2020 11:59p US/Eastern	attempts: 1 <a href="#">remove extension</a>
a, stephens	start: 03/18/2020 11:42p US/Eastern due: 11/12/2020 11:59p US/Eastern	attempts: 2 <a href="#">remove extension</a>
a, vanmali	start: 03/18/2020 11:42p US/Eastern due: 05/03/2020 11:59p US/Eastern	attempts: 1 <a href="#">remove extension</a>

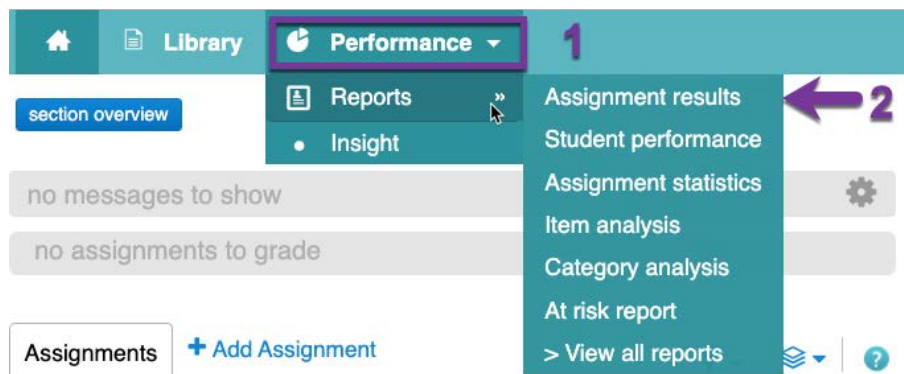
cancel

revert

save

### Checking scores / reports for a specific Virtual Labs assignment:

- From the home page, click the “Performance” drop down (1), then “Reports”
- Choose “Assignment Results” (2) if you are looking for overall class results



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- Assignment Results**

Use the options below to view assignment scores.

Show: Assignment Results ▾

Section(s)	Assignment(s) <span>Filter by ▾</span>	More options
<input type="checkbox"/> Saladin 9e (Your sections) <input checked="" type="checkbox"/> 2020 Symposium Course <input type="checkbox"/> Course to Check Images <input type="checkbox"/> lab course <input type="checkbox"/> RCT Course Saladin A&P 9e <input type="checkbox"/> Saladin 9e	Blood Typing Eye Dissection Astigmatism Test APR Skeletal HW Saladin 8e questions with image issues from Chapter 7 Section 1 + 2 <b>Cardiovascular Physiology - Blood Pressure</b> <b>Cardiovascular Physiology - Pulse Rate</b> Concept Overview Interactive Assignment Practice Atlas Anatomical Model Assignment APR Assignment Virtual Labs Tutorial Cardiovascular - Pulse Rate Diffusion Across a Selectively Permeable Membrane How Enzymes Work - Effect of Temperature Blood - Blood Typing Nervous System - Demonstrate Monosynaptic Reflex Mendelian Genetics - Fruit Fly characteristics Diffusion Lab Part I	<p><b>Assignment attempt</b></p> <p><input checked="" type="radio"/> Best   <input type="radio"/> Last   <input type="radio"/> All   <input type="radio"/> Average</p> <p><input checked="" type="checkbox"/> Exclude attempts submitted after due date</p> <p><input type="checkbox"/> Drop assignments with the lowest scores</p> <p><b>Specify a report date range (optional)</b></p> <p>From: mm/dd/yyyy To: mm/dd/yyyy</p> <p><b>Score style</b></p> <p><input checked="" type="radio"/> Points   <input type="radio"/> Percents   <input type="radio"/> Points &amp; Percents</p> <p><i>Note: Blackboard and Blackboard Vista export points only.</i></p> <p><b>Customize Report Information</b> +</p>

Select all | Clear all      Selecting assignments

Remember that the current assignment results report reflects the LAST due date filter you selected for it. To update this report, please adjust your date criteria selection.

**View report**

- |   |                                 |
|---|---------------------------------|
| <input checked="" type="checkbox"/> Student | <b>Eye Dissection</b><br>10 pts |
| koot, m                                     | 10.00                           |

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- Their hypothesis (when applicable)
- Their strategy (when applicable)
- Their conclusion (when applicable)
- Their collected lab data (when applicable)
- Their saved graphs (when applicable)
- Their lab wrap-up questions (when applicable)

Click the back arrow in the upper left corner to return to Connect

### Checking scores / reports for a specific student

- Choose “Performance” drop down, then “Reports” and then “Student performance” and then enter a specific student’s name if you want to search for a specific student and all their assignment results.
  - You will see when they started the assignment and submitted.

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# Student performance

Show: Student Performance

Look up a student to view performance reports:

☐ Look in all sections of this course (including those shared with colleagues)

Koot, M

Submitted assignments results

Assignments in progress

Show: <span>Virtual Labs</span>					
Export to Excel					
Assignments	Score	Started	Submitted	Time spent (HH:MM)	Date scored
<b>Eye Dissection</b> Total Value (Points): 10 , Average Score: 10.00 ( 100.00 %)					
Attempt 1	10.00(100.00%)	05/05/20 02:03PM EDT	05/28/20 04:52PM EDT	Not timed	05/28/20 04:52PM EDT
<b>Astigmatism Test</b> Total Value (Points): 10 , Average Score: 10.00 ( 100.00 %)					
Attempt 1	10.00(100.00%)	05/28/20 04:55PM EDT	06/09/20 02:52PM EDT	Not timed	06/09/20 02:52PM EDT
<b>Virtual Labs Tutorial</b> Total Value (Points): 100 , Average Score: 0.00 ( 0.00 %)					
Attempt 1	0.00(0.00%)	03/20/20 11:48AM EDT	05/25/20 10:05PM EDT	Not timed	05/25/20 10:05PM EDT
<b>Cardiovascular - Pulse Rate</b> Total Value (Points): 10 , Average Score: 6.30 ( 63.00 %)					
Attempt 1	6.30(63.00%)	03/18/20 11:46PM EDT	05/12/20 12:07AM EDT	Not timed	05/12/20 12:07AM EDT
<b>Diffusion Across a Selectively Permeable Membrane</b> Total Value (Points): 100 , Average Score: 100.00 ( 100.00 %)					
Attempt 1	100.00(100.00%)	03/19/20 12:09AM EDT	03/19/20 12:17AM EDT	Not timed	03/19/20 12:17AM EDT
<b>How Enzymes Work - Effect of Temperature</b> Total Value (Points): 100 , Average Score: 100.00 ( 100.00 %)					
Attempt 1	100.00(100.00%)	01/30/20 03:38PM EST	01/30/20 03:58PM EST	Not timed	01/30/20 03:58PM EST

\* Submitted past due date \* Extension \* Not yet graded

## Creating pre-lab or post-lab assessments

- From your Connect course home page, select the “+ Add Assignment” option
- Select the “Question Bank” assignment type

[Assignments](#)
[+ Add Assignment](#)

Find out all you can do with Connect Assignments. [view our success tips](#)



### Question Bank

Create an assignment from end-of-chapter questions, test bank or your own question banks.

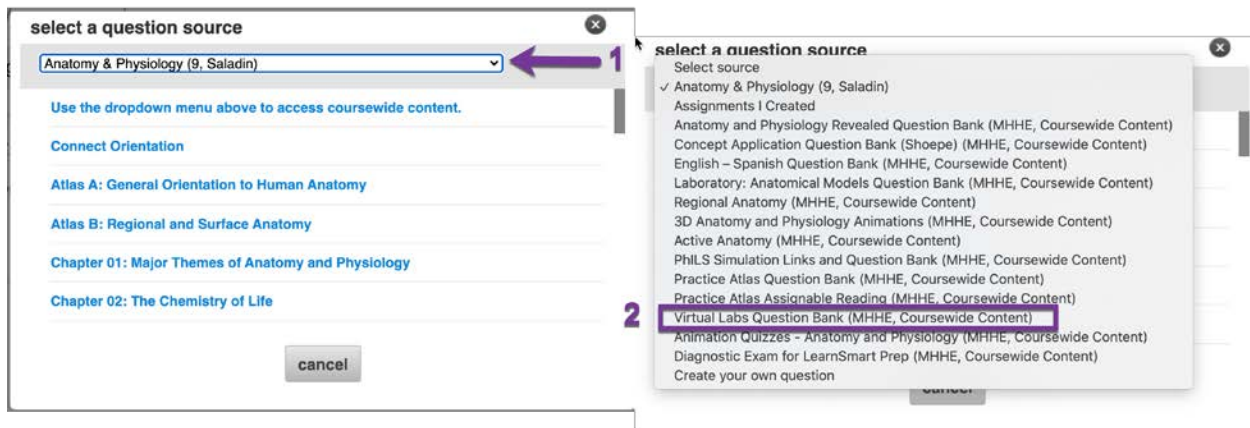
- Select the corresponding lab content bank you would like to review.

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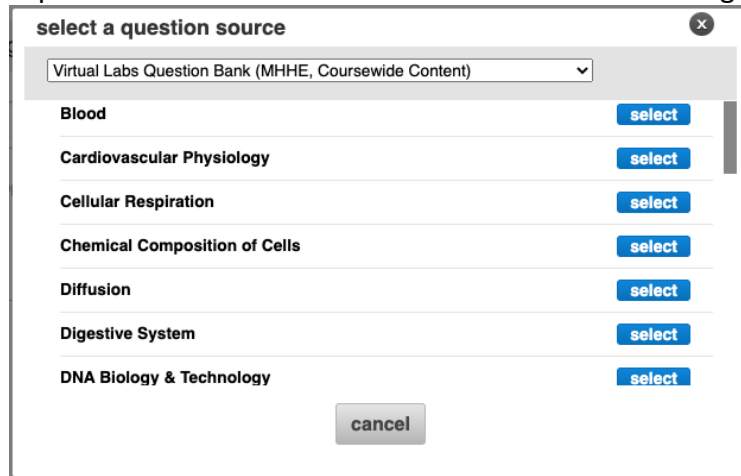
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- You will need to use the dropdown menu (1) to select the Virtual Labs Question Bank (2).



- Questions are organized using the headings of the Virtual Lab simulations. Select the heading. A list of questions for all of the simulations under that heading will be listed.



# UNNAMED ASSIGNMENT

3 / 3  
questions  
assigned

30.00  
points

[Enter student instructions](#) (optional)

add questions

organize assignment

view: list individually

[Virtual Labs Question Bank \(Coursewide Content, MHHE\)](#) > Blood

[select a different question source](#)

[or create a question](#)

filter results



results: 101

[add random selection...](#)

[add \(0\) checked question](#)

- question type

- ☐ select all
- ☐ Check All That Apply
- ☐ Fill in the Blank
- ☐ Interactive
- ☐ Matching
- ☐ Multiple Choice
- ☐ Ranking
- ☐ Short Answer
- ☐ True / False
- ☐ Worksheet

[filter results](#)

+ Accessibility

+ Bloom's

+ HAPS Outcome

+ HAPS Topic

+ Learning Outcome

- Section

- ☐ select all
- ☐ Blood: pre-lab
- ☐ Blood

[filter results](#)

- Subtopic

- ☐ select all
- ☐ Blood Typing
- ☐ Differential White Blood Cell Count
- ☐ Hematocrit
- ☐ Hemoglobin Content

[filter results](#)

questions

question type

[WBC Microscopic Appearance](#)

Matching

[Agranulocytes](#)

Check All That Apply

[Granulocytes](#)

Check All That Apply

[WBC Ranking](#)

Ranking

[Formed elements](#)

Check All That Apply

[Hematocrit Ranking](#)

Ranking

[Hematocrit MC](#)

Multiple Choice

[Plasma vs. formed elements](#)

Interactive

[Hematocrit—pre-lab question](#)

Multiple Choice

[Hematocrit procedure—prelab question](#)

Multiple Choice

[Buffy coat—post-lab question](#)

Multiple Choice

[Normal hematocrit—post-lab question](#)

Multiple Choice

[Hemolysis](#)

True / False

[Normal hemoglobin—post-lab question](#)

Multiple Choice

[Type O blood—pre-lab question](#)

True / False

[Antigens and antibodies](#)

Interactive

- Use the filters on the left side of the page to narrow down the list of available questions.
- The “Section” filter will show questions that have been tagged for pre-lab, while “Subtopic” will filter questions on whether they apply to one of the specific simulations for that topic.
- Under the “question type” (for some reason the question type filter is not capitalized like the others in Connect) filter, there are even short answer questions that have been created to apply to specific simulations. *Note: short answer questions need to be manually graded.*

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- You may preview any of the questions by clicking the blue hyperlinked text.
- Select the questions you would like to include in an assignment by selecting the box to the right of the question name.
- Once you have added all your questions, click “Continue” in the lower right, all the way at the bottom of the page.
- On the next screen, name your assignment and configure policy settings as you see fit.
- Click “Review and assign”.
- Click “Assign” to finalize the assignment.
- For more help with creating Connect assignments, please go to the following webpage, or ask your McGraw Hill learning technology representative or implementation consultant for assistance.


<https://createwp.customer.mheducation.com/wordpress-mu/success-academy/create-assignments/>

### Adaptive pre-lab assignments for students

- The adaptive pre-lab assignment content created to accompany Connect Virtual Labs contains foundational knowledge associated with each of the topics in the Virtual Labs. The pre-lab content is not exhaustive and is not intended to replace content from the textbook or lecture. The goal is to provide students with enough foundational knowledge to ensure they get the most out of their time spent in Virtual Labs simulations.
- From your Connect course home page, select the “+ Add Assignment” option. Select “Adaptive Learning Assignment”.


Assignments
+ Add Assignment
Filter
Sort
Help


Find out all you can do with Connect Assignments. [view our success tips](#)



### Question Bank

Create an assignment from end-of-chapter questions, test bank or your own question banks.



### Adaptive Learning Assignment

Create an assignment providing a learning experience that adapts to the unique needs of each learner through ongoing formative assessment, feedback, and learning resources. This replaces older assignment types such as LearnSmart, Prep, and Achieve.

Continued

- You can create either a New Assignment or a Review Assignment. You can select the Unit(s) you want to assign, and from there, you can select/deselect the specific concepts you want students to review.

## Create Assignment

### Select Assignment Type

- ☐ **New Assignment:** Allows you to tailor topics and subtopics across one or multiple chapters/modules to create a targeted assignment.
- ☐ **Review Assignment:** Allows you to combine new content with content students previously worked on. Prior performance will affect the order of questions and number of questions on each topic.

### Select Content

Choose chapters / modules for the assignment. You can modify your selections on the next screen.

- ☒ **Virtual Labs: Pre-Lab Foundational Knowledge 1**
- ☐ **Anatomy Lab Adaptive Assignment**

Chapters / Modules

Select Chapters / Modu...

☐ Select All  
☐ Applying the Scientific Method  
☐ Blood  
☐ Cellular Respiration  
☐ Chemical Composition of Cells  
☐ Diffusion

### Select Content ⓘ

Use the checkboxes to specify topic and sub-topics to include in your assignment. You can use the slider to modify the estimated time and number of concepts for the assignment. If you manually select concepts, moving the slider afterwards may change your selection.

☒ Lab Safety 13 of 13 concepts selected

☒ Key Concepts 7 of 7 concepts selected

[View: Topic Overview](#)

☒ Recall the importance of laboratory safety.

[View: Introduction to Lab Safety](#)

☒ Recall the common laboratory hazards when developing lab safety practices.

[View: Potential hazards and precautions, treatments](#)

☒ Recall the standard rules and practices for the scientific lab setting.

[View: Laboratory best practices](#)

- Upon entering the adaptive pre-lab assignment, students will have the option to start with the Learning Resources, which include targeted content to help them answer questions; or they can start with the questions and only refer to Learning Resources if they need help.
- The Adaptive Learning Assignment functions much like SmartBook 2.0. The main difference is that instead of a textbook that is used to help students answer questions, the adaptive assignment for Virtual Labs uses Learning Resources.
- The best practice is to assign the pre-lab foundational knowledge content related to assigned simulations before students begin their work on the simulation itself.

### Checking scores / reports for a specific Connect assignment

- You can find reporting data for pre-lab or post-lab assignments that you create from the Connect Question Bank using the same steps listed above.
  - Other reports will be available within the "Performance" drop-down menu, e.g. Item Analysis or Category Analysis that you may find useful.

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## List of simulations that have randomized lab data for students

### Applying the Scientific Method

Pillbug Preference

### Blood

Blood Typing

Hematocrit

Hemoglobin Content

### Cardiovascular Physiology

Pulse Rate

### Cellular Respiration

Measuring Energy Production in Plants

- both initial starting values and rate of change are random

Yeast Fermentation

### Chemical Composition of Cells

Emulsification of Lipids

- location of tubes

### Endocrine System

Influence of Thyroid Hormone on Temperature Regulation

- weights of mice

### Mendelian Genetics

Dihybrid Fruit Fly Cross

Dihybrid Plant Cross

Fruit Fly Characteristics

- mutant types, counts: 6 - 8 males or females

Monohybrid Fruit Fly Cross

- number of offspring

Monohybrid Plant Cross

- number of leaves

X-Linked Fruit Fly Cross

### Metric Measurement

Length

- diameters of circles

Weight

## Photosynthesis

Comparing Green and Blue Light

Determining Rate in White Light

## Isolation Methods

Quantification by Colony Counting

- Phase 2 Colony Count randomized on the range 44 – 54.