



Campus

Integration Tour and
Grade Sync Overview



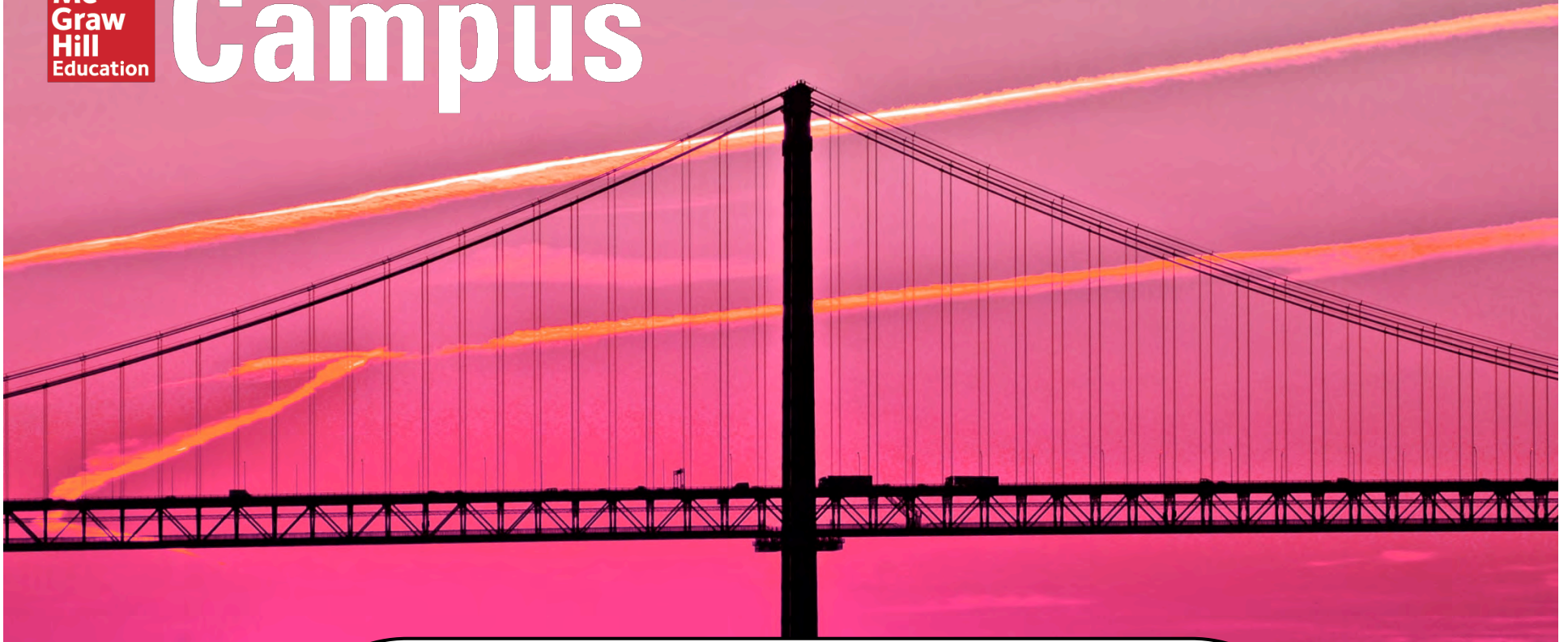


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Users login with their Sakai
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in their paired Connect section

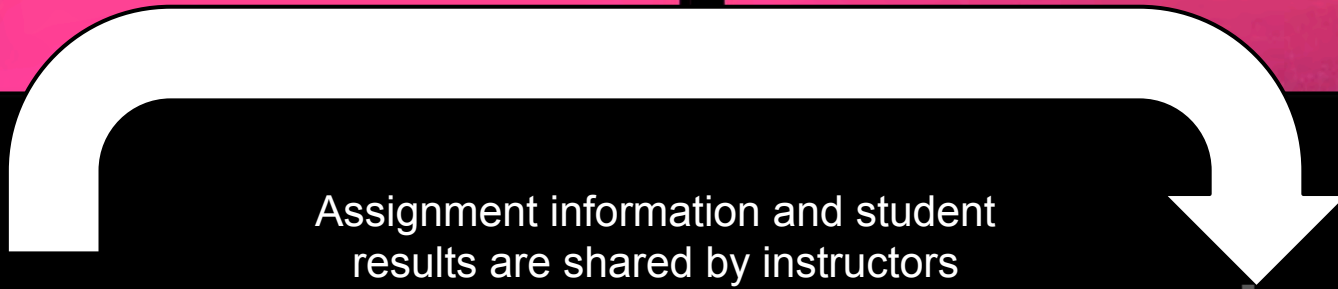
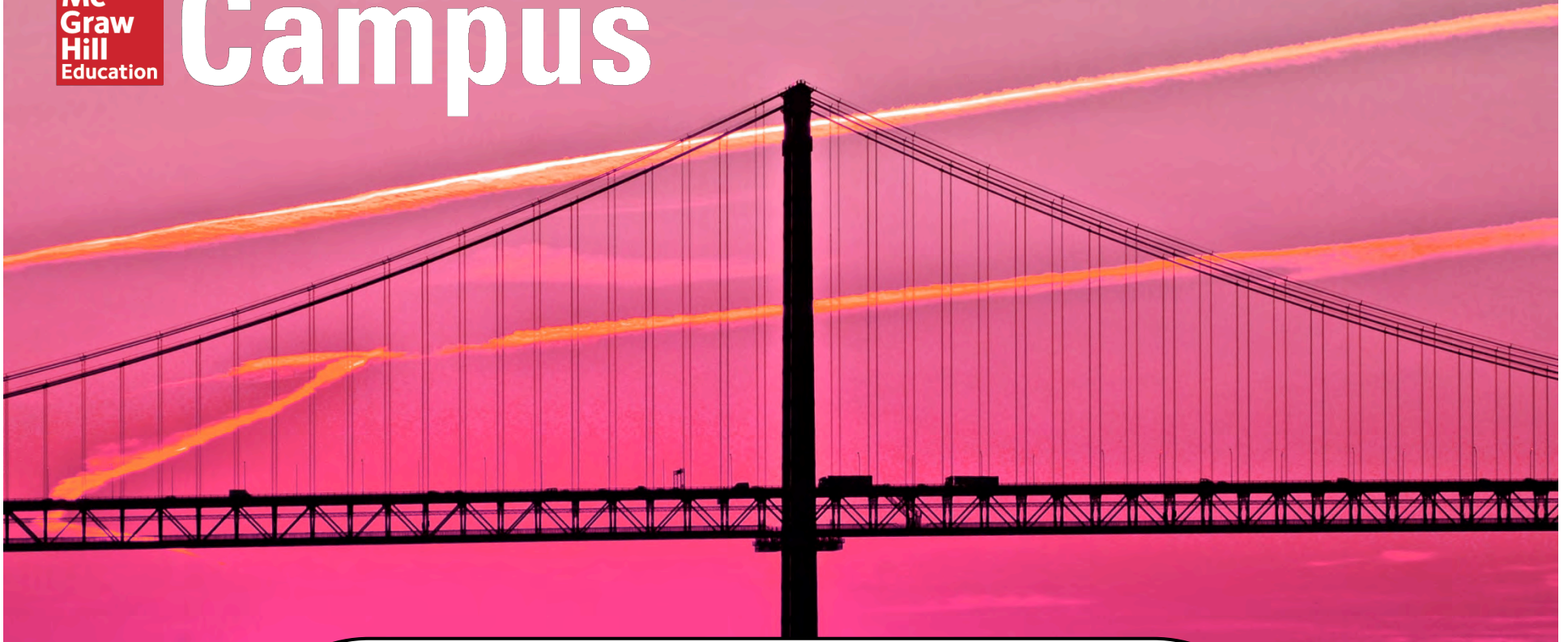
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Assignment information and student results are shared by instructors from Connect and recorded in the Sakai course gradebook

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Biology 101





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Russell

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Additional Relevant Educational Materials



CONCEPTS IN BIOLOGY 14e

ENGER

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Even if they have not adopted a McGraw-Hill text for their course, instructors still have complimentary access to our full library of eBooks and their online resource centers from which to share content with their students

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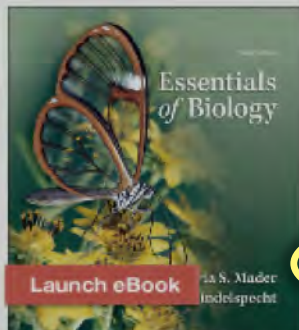


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Instructor Resources

Presentation Tools

- Active Learning
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- Forensic Science Activ...
- Instructor's Manual
- Lab Resource Guide
- Computerized Testing
- Virtual Labs Answer Key

Course-wide Content

- Biology Prep
- Writing Lab Reports an...
- Spanish Animations
- Virtual Labs
- Case Studies
- Study on the Fly

Choose a Chapter ▾

Contents ▲

Presentation Tools

(See related pages)

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MOLECULAR BIOLOGY OF THE GENE 3D ANIMATION

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Here instructors may access a variety of teaching and learning materials for use in their course, including test banks, presentation materials, virtual labs and many more

Using Resources from Mader, *Essentials of Biology*, 3e

PC Users

Right click on the filename from this table and choose "Save Target As..." to download the files to your desktop.

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embryo

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, which grows and develops through various stages to become an adult. An **embryo** develops

A View of Life



Many organisms depend on behavior to regulate their internal environment. A chilly lizard may raise its internal temperature by basking in the sun on a hot rock. When it starts to overheat, it scurries for cool shade. Other organisms have control mechanisms that do not require any conscious activity. When a student is so engrossed in her textbook that she forgets to eat lunch, her liver releases stored sugar to keep the blood sugar level within normal limits. Hormones regulate sugar storage and release, but in other instances the nervous system is involved in maintaining homeostasis.

Living Things Respond

Living things find energy and/or nutrients by interacting with their surroundings. Even unicellular organisms can respond to their environment. The beating of microscopic hairs or the snapping of whip-like tails moves them toward

or away from light or chemicals. Multicellular organisms can manage more complex responses. A monarch butterfly can sense the approach of fall and begin its flight south, where resources are still abundant. A vulture can smell meat a mile away and soar toward dinner.

The ability to respond often results in movement: The leaves of a plant turn toward the sun, and animals dart toward safety. Appropriate responses help ensure survival of the organism and allow it to carry on its daily activities. Altogether, we call these activities the *behavior* of the organism.

Living Things Reproduce and Develop

Life comes only from life. Every type of living thing can **reproduce**, or make another organism like itself. Bacteria and other types of unicellular organisms simply split in two. In multicellular organisms, the reproductive process usually begins with the pairing of a sperm from one partner and an egg from the other partner. The union of sperm and egg, followed by many cell divisions, results in an immature individual, which grows and develops through various stages to become an adult.

An **embryo** develops into a whale or a yellow daffodil or a human being because of the specific set of genes inherited from its parents (Fig. 1.3). In all organisms, the genes are made of long DNA (deoxyribonucleic acid) molecules, but even so the genes are different between species and in comparisons are the basis of paternity testing. Although an individual's genetic makeup is unique, it consists of DNA from both parents. Profiles of a child and his or her biological parents are measured. DNA provides the blueprint or instructions for the organization of the particular organism. All cells in a multicellular organism have the same set of genes, but only certain ones are turned on in each type of specialized cell.

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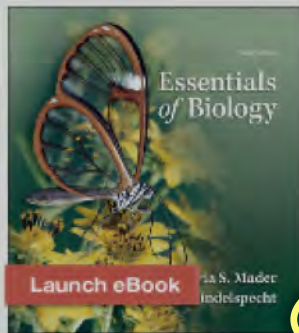
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- 4. Inside the Cell (23 pp)
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- 14. Darwin and Evolution (17 pp)
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Evolution Accounts for Diversity

What do the many breeds of dogs, the honeycreepers of Hawaii, and a child's antibiotic-resistant ear infection have in common? Evolution! Without **evolution**—change in a line of descent over time—we wouldn't see such a great variety of living things about us. But aside from its many benefits, evolution also sometimes causes problems for humans.

Some bacteria have evolved to the point that they are resistant to the antibiotics once successfully used to cure the diseases they cause. For example, antibiotics originally cured bacterial ear infections within a few days. Unseen, however, were the one or two bacteria with just the right mutation to resist a particular drug. All the descendants of these bacteria were also resistant, causing the antibiotic to be useless as a cure for this type of ear infection. The antibiotic is considered the *selective agent* because it allowed the resistant bacteria to flourish while killing their relatives.

What was the selective agent for the many breeds of dogs available as pets today? Humans, of course. Over the years, humans selected which dogs to

PART III Evolution

14

Darwin and Evolution

OUTLINE

- 14.1 Darwin's Theory of Evolution 234
- 14.2 Evidence for Evolution 242

BEFORE YOU BEGIN

Before beginning this chapter, take a few moments to review the following discussions.

- Section 1.2** Why is evolution a core concept of biology?
- Section 9.1** What is an allele?
- Section 9.2** How does meiosis increase variation?

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title

shared

info

start-due

show/hide

title	shared	info	start-due	show/hide
 Chapter 1. A View of Life	<input type="checkbox"/>		none-10/26/12	
 Chapter 2 Homework	<input type="checkbox"/>		10/15/12-10/17/12	
 Chapter 3 Homework	<input type="checkbox"/>		10/18/12-none	
 Module 1 Quiz	<input type="checkbox"/>		10/18/12-none	

section info

LearnSmart study modules




LearnSmart

section performance

44.95%* Section average for 7 assignment(s)



The Connect section homepage provides an easy to use interface for assigning a variety of interactive, customizable assessments and learning tools

 GS DEMO WEBINAR	<input type="checkbox"/>		10/26/12-	
---	--------------------------	---	-----------	---

Look up a student in this section.

FAQ

Give feedback

Open eBook

Standings for your section ▶

1. Demolnstructor 0



Which of the following describes a group of related organs working together to carry out a specific function?

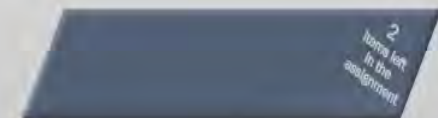
Tissues

Macromolecules

Organ system

Organs

Click one of the buttons below.



Do you know the answer? (Be honest.)

Yes

Probably

Maybe

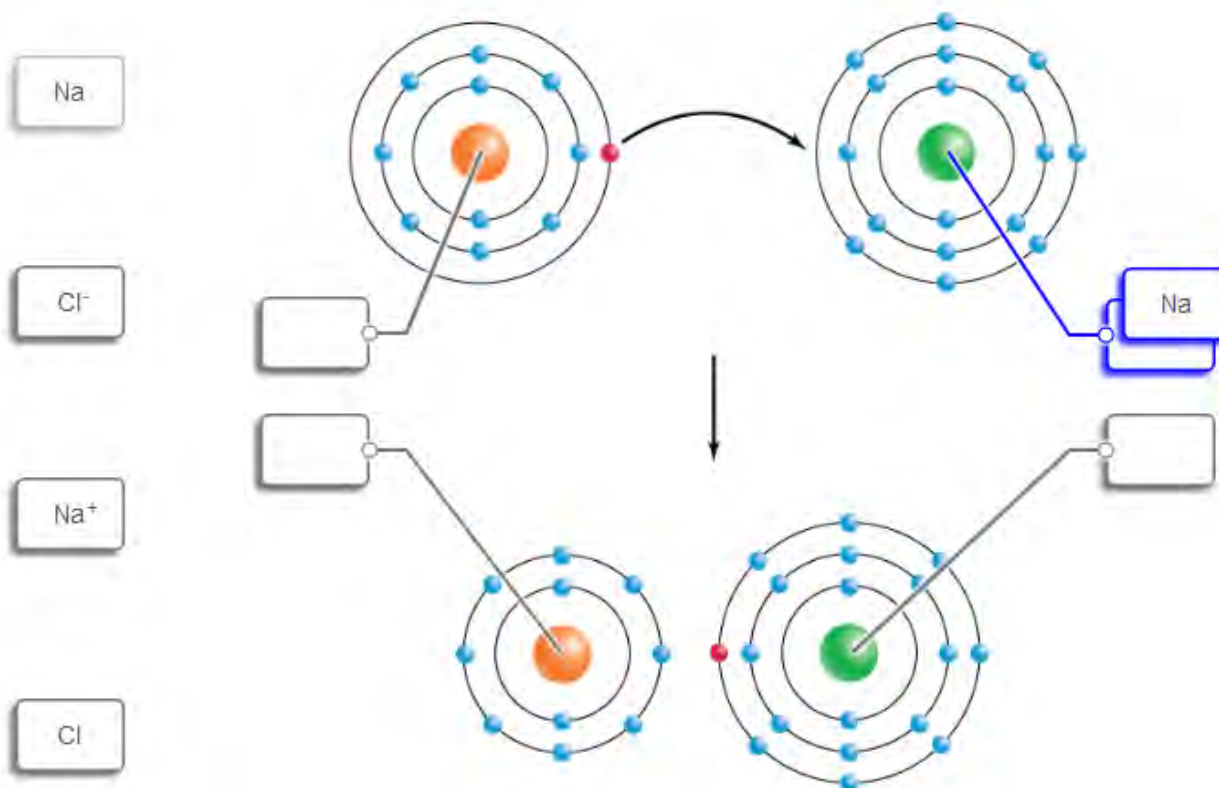
No—Just guessing

LearnSmart's super-adaptive technology is proven effective to improve students performance up to one full letter grade

1. value:
10.00 points

Ionic bonds

Label the following diagram with the appropriate terms to describe how ionic bonding works.



All Connect questions are mapped to learning objectives and are presented in a variety of interactive formats to engage students

gradebook sync list ?

Send this section's assignment scores to your school gradebook to complete your records and for your students to view. [Check your roster](#) to see which students are ready to sync!

show: Gradebook Sync

show assignment for: Bio101 Fall 2012

assignment	type	sync status	due date	attempt	<input type="checkbox"/>
Module 2 Quiz		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>
Chapter 5 Homework		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>
Module 1 Quiz		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>
Chapter 4 Homework		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>

Any scored assignments that generate Connect gradebook entries may be synced to the Sakai gradebook

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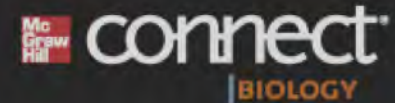
assignment	type	sync status	due date	attempt	<input type="checkbox"/>
Module 2 Quiz		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>
Chapter 5 Homework		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>
Module 1 Quiz		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>
Chapter 4 Homework		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>

Instructors may easily confirm which scores they have previously synced and if new submissions are ready to be sent to their Sakai gradebook

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Send this section's assignment scores to your school gradebook to complete your records and for your students to view. [Check your roster](#) to see which students are ready to sync!

show: Gradebook Sync ▾

show assignment for: Bio101 Fall 2012 ▾

select attempt ▾ **sync**

assignment	type	sync status	due date	attempt
Module 2 Quiz		last synced: 10/26/12 12:48am	none	Last <input type="checkbox"/>
Chapter 5 Homework		last synced: 10/26/12 12:48am	none	Last <input type="checkbox"/>
Module 1 Quiz		last synced: 10/26/12 12:48am	none	Last <input type="checkbox"/>
Chapter 4 Homework		last synced: 10/26/12 12:48am	none	Last <input type="checkbox"/>

Instructors simply check the box for the assignment(s) they wish to sync and select which attempt score type they would like to send to Sakai

connect
BIOLOGY

gradebook sync


Send this section's assignment scores to your students to view. [Check your roster](#)

show assignment for: Bio101 Fall 2012

best attempt

assignment	type	sync status	due date	attempt	
Module 2 Quiz		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>
Chapter 5 Homework		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>
Module 1 Quiz		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>
Chapter 4 Homework		last synced: 10/26/12 12:48am	none	Last	<input type="checkbox"/>
Chapter 6 Homework		last synced: 10/26/12 05:16pm	none	Best	<input type="checkbox"/>

sync in progress close window x



The **Best attempt** scores from **1** assignment(s) are being sent to your gradebook at this very moment for students who are ready to sync.

You and your students will be able to see them shortly!

A message will appear confirming the selection(s)

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Users present: Test Test

Gradebook Items > Chapter 2 Homework

Gradebook Item Summary

< Save and View Previous Gradebook Item | Return to Gradebook Items | Save and View Next Gradebook Item >

Title Chapter 2 Homework
Points 10
Class average for scores entered 5
Category Please assign this item to a category. Click Edit Item Settings below and choose a category on the form.
Due Date Oct 17, 2012
Options Not counted towards course grade
[Edit gradebook item settings](#)
[Remove gradebook item from gradebook](#)

Grading Table
 View All Sections/Groups ▾

StudentName Find Clear

Viewing 1 to 4 of 4 students
 < < Show 50 > >

Save Changes Clear Changes

Student Name	Student ID	Log	Points	Edit Comments >>
Curie, Marie	marie_curie		5	

A new gradebook item will be created in the Sakai gradebook the first time the item is synced from Connect. The item name and possible points will be the same as the Connect assignment, and students' scores will be populated according to the attempt type selected



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