



McGraw-Hill

SCOREboard™

Implementation Guide

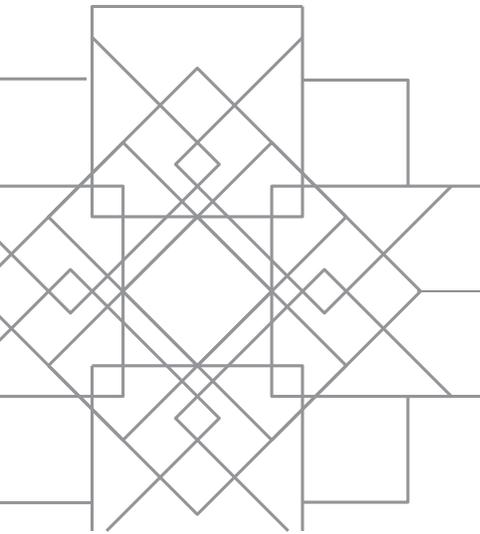
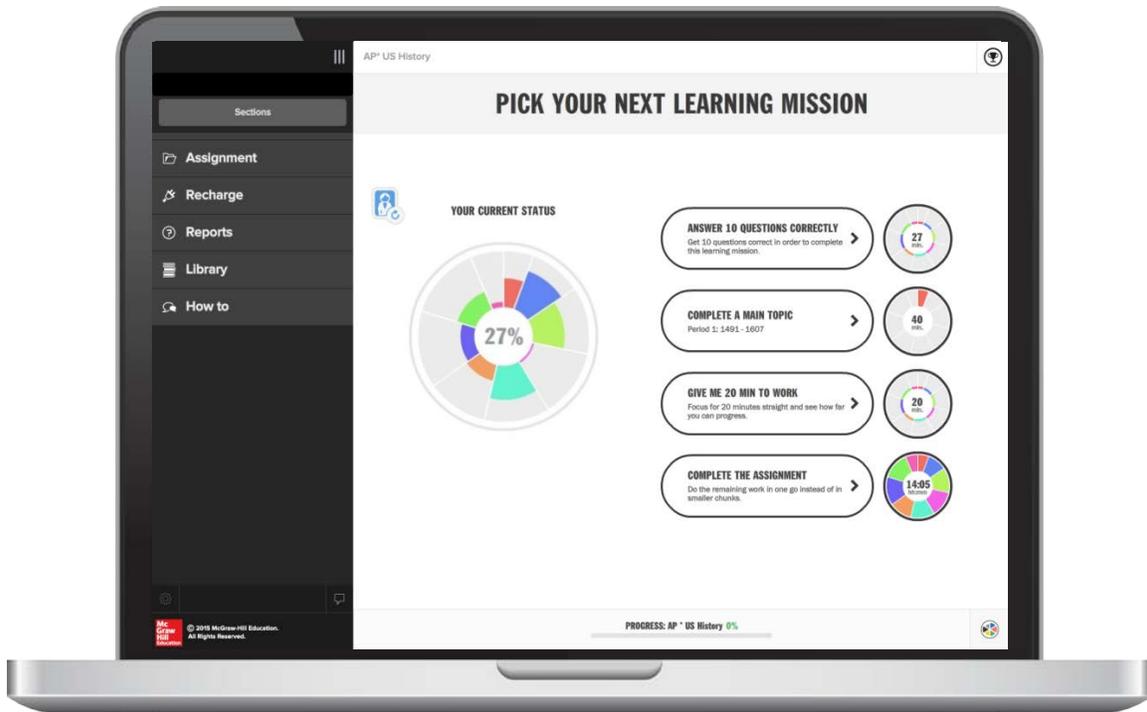


Table of Contents

SCOREboard Overview	3
SCOREboard Components	3
Adaptive AP Content Review.....	3
Complete AP Practice Exams.....	4
Using the Master Class.....	5
SCOREboard Best Practices.....	5
The Teacher Experience.....	6
Check Your System Requirements.....	6
Logging In.....	6
Accessing SCOREboard	7
Creating New Sections.....	7
Registering Students.....	8
Overview of the Section Homepage.....	9
Assignments in the Master Class	10
Viewing and Editing Assignments.....	11
Previewing Assignments as a Student	11
Grade Reports.....	12
Adaptive Assignment Reports.....	14
The Student Experience.....	18
Registering for SCOREboard	18
Accessing SCOREboard	19
Navigating the Course.....	19
Using the Adaptive AP Content Review.....	20
Taking the AP Practice Exams.....	26
Viewing Results.....	28
Tablet Users	29
Additional Support.....	29
Resources and How-to.....	29
Technical Support	29

SCOREboard Overview

SCOREboard™ is the first Advanced Placement® Exam Preparation solution that truly adapts to each student's learning needs, delivering a personalized learning solution to ensure student comprehension as they prepare in the weeks and months leading up to the AP exams. SCOREboard helps students study smarter, not harder!

Features:

- Adaptive AP Content Review
- Complete AP Practice Exams
- Comprehensive Reports

SCOREboard is a study tool like no other. The Adaptive AP Content Review uses LearnSmart® technology to deliver targeted content review materials to students. After reviewing the content tied to the AP curriculum, students have the opportunity to take complete Practice Exams, with AP-style questions, timing, and scoring.

SCOREboard can be purchased for an entire class, or by individual students, and can be accessed from any Internet-connected computer. Because SCOREboard is based on the College Board's AP curriculum, it is appropriate for all students as an AP Exam prep program, *no matter what textbook* will be used in the course.

*AP®, Advanced Placement®, and Advanced Placement Program® are trademarks registered by the College Board, which was not involved in the production of, and does not endorse, these products.

SCOREboard Components

SCOREboard is entirely online, accessed through the Connect® assignment and assessment platform. There are two main components in SCOREboard: the Adaptive AP Content Review and the complete AP practice exams.

- **Adaptive AP Content Review**

The Adaptive AP Content Review, powered by LearnSmart Achieve, enables students to review and practice key concepts in preparation for their AP Exams. The content in the Adaptive AP Content Review is based on the AP curriculum established by the College Board®. During the review sessions, students are drilled on a series of questions. Based on students' answers to these questions, and their confidence level in their answers, LearnSmart Achieve adapts to focus on the topics with which students are struggling. When students miss a question about a key concept, they are presented with targeted Learning Resources that help teach and reinforce important material.

The questions students answer will come in a variety of formats (multiple choice, multiple answers, true or false, and fill-in) to challenge students and keep their interest. While the question styles do not match the style of the AP test questions, the content matches the focus of the courses' AP curriculum.

As they work through their sessions, students have access to various reports, informing them of their progress, scores per topic, missed questions, and more. Teachers have access to these same reports.

Students will complete this component when they have worked through all topics and shown mastery. Because all students are different, the time it takes a student to complete the Adaptive AP Content Review, and the total number of questions they answer, will vary. As a result, you should not plan to score or grade the students as they work through this component.

- **Complete AP Practice Exams**

Each SCOREboard course comes with 4* complete AP Practice Exams. These exams are available electronically in Connect, and students can complete all sections (including free response) and submit for grading. The multiple choice sections will be scored automatically, while scoring rubrics are available for all free-response questions. You can score the free-response questions yourself or assign the rubrics to students so that they can self-score those sections.

Alternatively, all of the practice exams are available in PDF form. This is useful if you want your students to have a more authentic, exam-like experience.

The exams are all pre-assigned in Connect. In addition, each section is also timed to match the time students will have on the day of the actual AP Exam. The question style, number, and type all match those on the actual AP Exams.

Because the Practice Exams can be scored in the very same way as the actual AP Exams (with the exception of the 5-1 overall score), feel free to use these scores as a grade for your students. This will be a more accurate measure of student ability and more fair than trying to establish a grade during the Adaptive AP Content Review phase.

*SCOREboard Microeconomics and SCOREboard Macroeconomics have 2 complete AP Practice Exams each.

SCOREboard is available for the following Advanced Placement Courses:

AP Biology	AP European History
AP Chemistry	AP Psychology
AP Economics (Micro or Macro)	AP United States Government and Politics
AP English Language Composition	AP United States History
AP Environmental Science	AP World History

Using the Master Class

When you or your school purchase SCOREboard, your Connect teacher account will receive a special Section of SCOREboard called a Master Class. In a Master Class:

- All of the available components of SCOREboard are pre-assigned
- All of the assignments are arranged in the most effective order
- The due date for all assignments is set to just before the next AP Exam

Because all of the assignments are pre-assigned, you do not have to make any modifications to the Master Class in order for students to begin using the course. All you have to do is ensure your students register for the Master Class. However, if you choose to, you can modify the due dates and assignments in any way you wish.

You will only receive a Master Class the first year you are using SCOREboard. In subsequent years, you will need to [duplicate the Master Class](#) to use with students for the new school year. You will also want to [update the due dates](#) of all assignments to reflect the new AP Exam date.

SCOREboard Best Practices

SCOREboard works best when used as pre-assigned in the Master Class, with students working through the Adaptive AP Content Review then completing the AP Practice Exams. Students can work at their own pace and, because it is adaptive, SCOREboard's content review will be different for each student.

The Adaptive AP Content Review is not designed to be graded in the same way as a quiz or test. Students have multiple opportunities to answer questions correctly and are periodically given Learning Resources to help re-teach the content. One student may complete this section in half the time it takes another student. As long as a student completes the Adaptive AP Content Review by the due date, he or she will receive 100%.

If you would like a more straightforward assignment, or one that assesses students at the same level and on the exact same questions, we encourage you to use the AP Suggested Assignment banks in your Connect course or other testing materials. Scores or reports from the SCOREboard Adaptive AP Content Review section **should not** be used as a mid-term or final exam.

The Teacher Experience

As a teacher using SCOREboard, you have access to powerful instructional and reporting tools. In this section you will learn how to access SCOREboard, view and edit existing assignments, preview assignments as a student, create new assignments, and track student achievement with grading and progress reports.

Check Your System Requirements

SCOREboard™ is available through the Connect® website. Connect is entirely online and works best when you are using Firefox or Chrome as your web browser.

Go to <http://connect.mheducation.com> /connect/troubleshoot.do to automatically check if your computer and web browser are compatible with Connect.

component	compatible?	your computer
Browser	✓ Yes	Firefox 35
Cookies	✓ Yes	Cookies accepted
Javascript	✓ Yes	Enabled

component	compatible?	your computer
Flash	✓ Yes	Installed (Version 15.0.0)
Java	✓ Yes	Installed (Version 1.8.0.25)
Operating System	✓ Yes	Windows 7
Pop-up Blocker	✓ Yes	Pop-up windows allowed
Screen Resolution	✓ Yes	1429 x 1143 pixels

Logging In

Direct your web browser to:
connect.mheducation.com

Enter your Connect username and password.

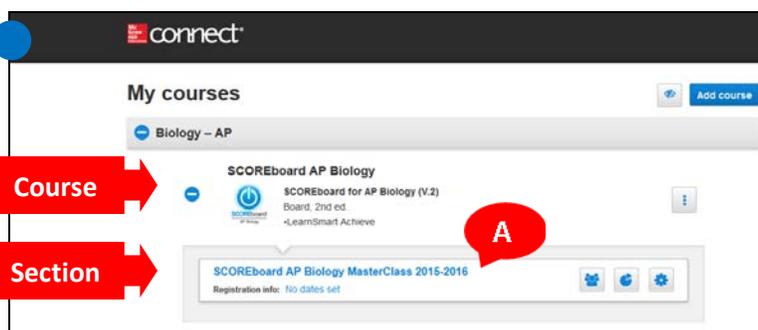
Then click **Sign In**.

Accessing SCOREboard

When you log into Connect, you will see the **My Courses** page. The My Courses page lists all of the courses you are teaching.

Courses are subdivided into Sections. A Section is like a class or class period, and houses all of your class assignments and student data. Your first Section of SCOREboard will be the Master Class. In the Master Class, all components of SCOREboard are pre-assigned for you.

To access SCOREboard, click on the blue section name **(A)**.



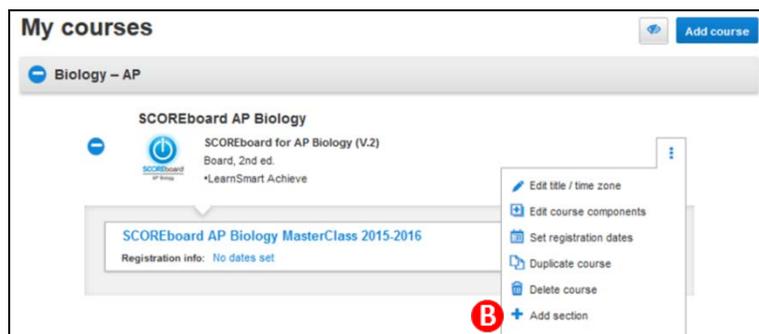
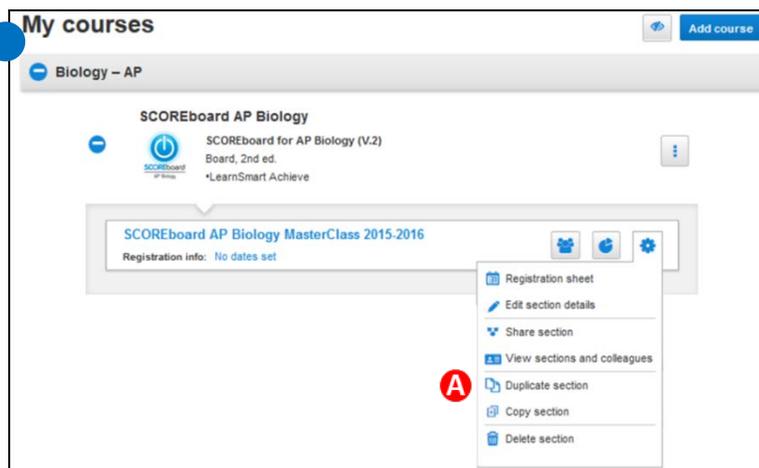
Creating New Sections

If you are teaching multiple classes, you may wish to create a new Section of SCOREboard for each class. There are two ways to create new Sections of SCOREboard: Duplicating a Section and Adding a New Section.

A **Duplicating a Section** (recommended) – Use this option if you would like to make a copy of an existing Section, such as the Master Class. When you duplicate a Section, all assignments and assignment policies will copy to the new Section.

**We recommend that you use this option to duplicate the Master Class in order to ensure your additional Sections include all of the pre-assigned components of SCOREboard.

B **Adding a New Section** – Use this option if you would like to create a brand new SCOREboard Section that does NOT have all of the components pre-assigned to your students. When using this option, you will need to assign the components of SCOREboard yourself.



Registering Students

In order to be part of a Section you have created, students must register. To register, you need to provide students with two pieces of information: the unique Section Web Address and a student registration code.

- **Section Web Address**

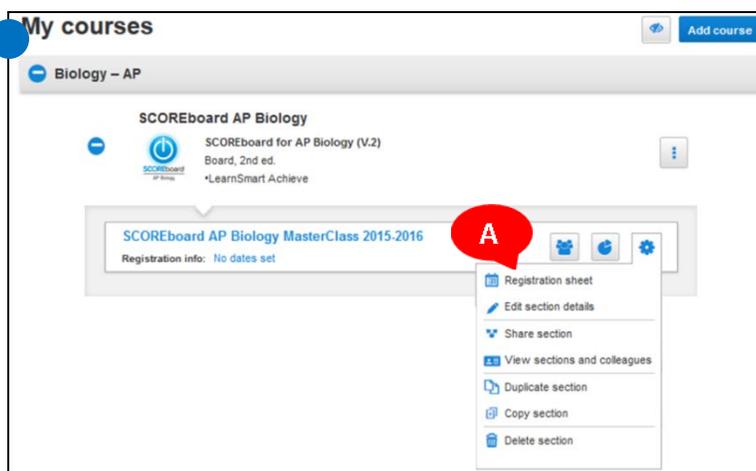
Each Section you create in Connect has a unique URL. Student use this URL to register for the correct section. When students register, they are added as a student in that class.

To find the Section Web Address, navigate to the **My Courses** page and click on the **Section Options** button next to the section for which you want students to register. Select Registration Sheet **(A)**.

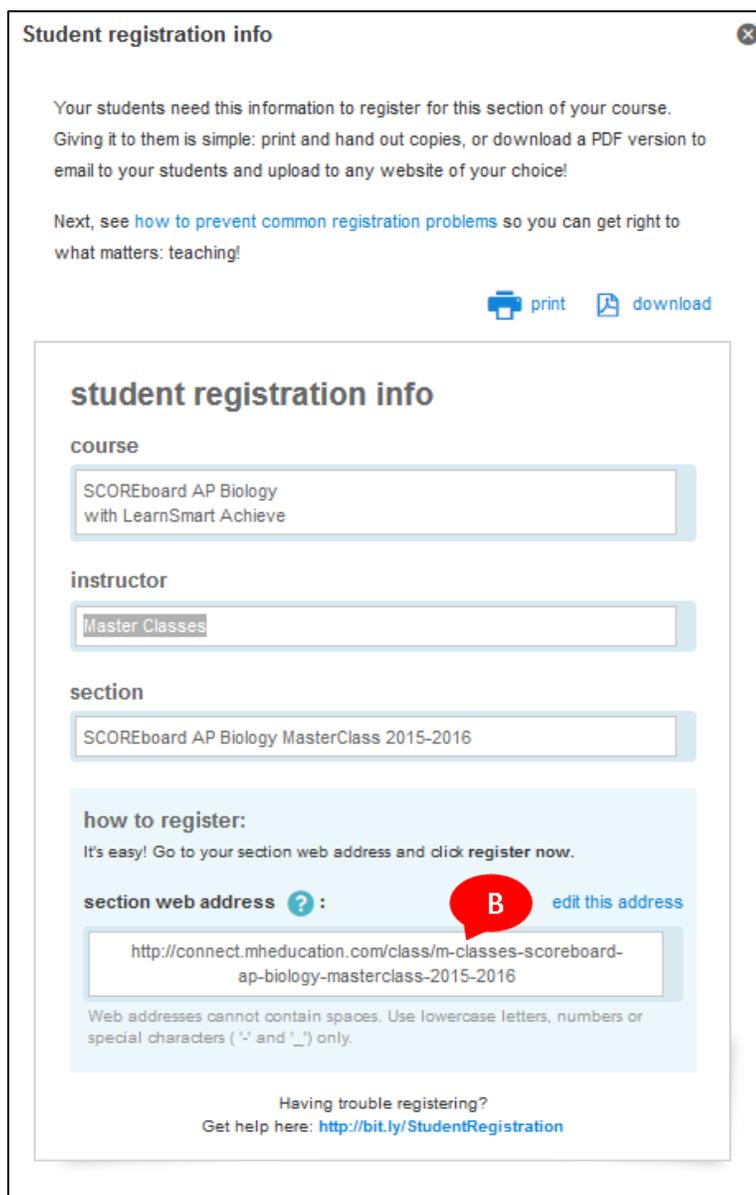
You can print or download the registration sheet to distribute to your students. At the bottom of the Registration Sheet is the Section Web Address **(B)**. To register, students simply visit this URL.

- **Student Registration Code**

When students visit the Section Web Address to register, they will be asked to enter their 20-digit Student Registration Code. This code was provided to you or your school at the time SCOREboard was purchased. Students will be unable to register for your Section without this code.



The screenshot shows the 'My courses' interface. Under the 'Biology - AP' category, there is a section for 'SCOREboard AP Biology'. A dropdown menu is open, showing options like 'Registration sheet', 'Edit section details', 'Share section', etc. A red circle with the letter 'A' points to the 'Registration sheet' option.



The screenshot shows the 'Student registration info' page. It includes instructions on how to register and provides a form for 'student registration info'. The form has fields for 'course', 'instructor', and 'section'. Below the form, there is a 'how to register:' section with a 'section web address' field. A red circle with the letter 'B' points to the 'section web address' field, which contains the URL: <http://connect.mheducation.com/class/m-classes-scoreboard-ap-biology-masterclass-2015-2016>.

Overview of the Section Homepage

When you open a section of SCOREboard you will be taken to the Section Homepage. From this page you can:

- A** Click on the **House Icon** to return to the Section Homepage from within any page in the Section.
- B** Click on **Library** to access the resources available for SCOREboard.
- C** Click on **Performance** to access the different types of reports you can generate when students have submitted assignments.
- D** Click on **My Courses** to go back to the My Courses landing page.
- E** Click on **Student View** to preview what your students in this Section will see.
- F** View and edit **Section Info**, including the student roster and instructor information.
- G** View all of the **Assignments** that have been created for this Section.
- H** Click on **+Add Assignment** to create new assignments for this Section.

The screenshot displays the SCOREboard AP Biology Section Homepage. The interface includes a top navigation bar with a 'connect' logo, 'SCOREboard AP Biology', and 'SCOREboard AP Biology MasterClass'. Below this is a secondary navigation bar with 'Library' and 'Performance' tabs. The main content area is titled 'section overview' and contains several sections: 'no messages to show', 'no assignments to grade', and an 'Assignments' section with a '+ Add Assignment' button. The assignments list includes 'Adaptive AP Content Review', 'AP* Practice Exam 1' (with sub-items for Multiple Choice and Short Answer Questions, and Free Response Questions), 'AP* Practice Exam 2', 'AP* Practice Exam 3', 'AP* Practice Exam 4', and 'Printable Practice Exams'. On the right side, there is a 'Section info' panel with instructor information, a 'my course resources' section with logos for 'ACHIEVE' and 'LEARNSMART ADVANTAGE', and a 'Section performance' section. The bottom right corner features 'bookmarks' and 'news feeds' sections.

Assignments in the Master Class

When SCOREboard is purchased, teachers receive a “Master Class.” In the Master Class, all of SCOREboard’s available components are pre-assigned to your students, arranged in the most effective order, and assigned with a due date just before the next AP® Exam.

The assignments in the Master Class are:

- A** The **Adaptive AP® Content Review**, which uses a combination of adaptive questioning and just-in-time learning resources to help students gain mastery of the subject matter.
- B** The **AP® Practice Exams**, which provide students with an opportunity to practice taking an AP-style exam. The number, content, and style of questions, as well as the exam time limit, mimic the actual AP exam.
- C** The **Printable Practice Exams**, which are PDF versions of the practice exams and answer keys that can be distributed to students in order to provide a more authentic, exam-like experience.

The screenshot displays the SCOREboard AP Biology Master Class interface. At the top, it says "connect" and "SCOREboard AP Biology SCOREboard AP Biology MasterCl". Below this, there are navigation tabs for "Library" and "Performance". The main content area is titled "section overview" and shows "no messages to show" and "no assignments to grade". There is a section for "Assignments" with a "+ Add Assignment" button. Below this is a table of assignments:

Title	Shared	Info	Start due	Show/hide
Adaptive AP Content Review A			none-05/02/16	
AP® Practice Exam 1 B				
AP® Biology Practice Exam 1: Multiple Choice and Short Answer Questions			none-5/5/2016	
AP® Biology Practice Exam 1: Free Response Questions			none-5/8/2016	
AP® Practice Exam 2				
AP® Practice Exam 3				
AP® Practice Exam 4				
Printable Practice Exams C				

On the right side, there is a "Section info" panel with an instructor profile for "Master Classes" and a "Section web address" field. Below that is a "my course resources" section with logos for "ACHIEVE" and "LEARNSMART ADVANTAGE". At the bottom, there is a "Section performance" section with a note: "There are no reportable assignment submissions yet."

Viewing and Editing Assignments

From your Section Homepage you can see all of your assignments.

Click on the name of an assignment **(A)** to open the details. Opening the details will allow you to:

- Preview the assignment
- See which students have started the assignment
- Update the assignment policies (due date, number of attempts, time limit, points, etc.)
- Edit the assignment content

Click on the eye symbol next to any assignment **(B)** to hide it from students. Click on **+Add Assignment (C)** to create additional assignments.

For more information about editing assignments in Connect, consult the **Connect implementation guide** found at mheducation.com/apresources..

! It is important that you verify the due dates of the assignments and adjust as necessary based on when your students are taking the course.

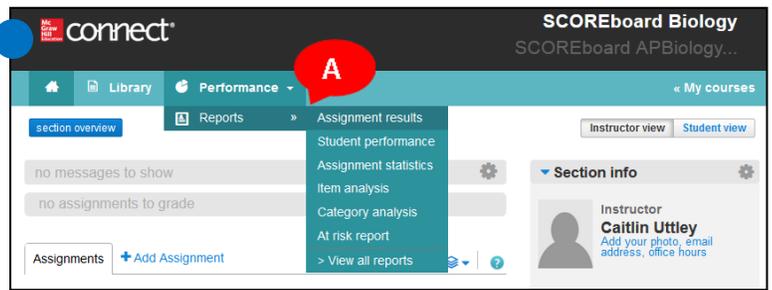
! It is not recommended that you add additional Adaptive AP Content Review (LearnSmart Achieve) assignments to your course. Doing so may skew the progress reports visible to you and your students.

Previewing Assignments as a Student

Click on the Student View button **(A)** to preview the course the way your students will see it. Once in the student view, you can preview the Adaptive AP Content Review, the AP Practice Exams, or any assignment you have created!

Grade Reports

When students complete their assignments, you can see their final grades using Connect's Performance Reports. Access the performance reports by clicking on Performance and selecting Reports **(A)**. This will reveal a list of available reports. There are five different report types for graded assignments:



- **Assignment results**

See assignment scores listed by student and color-coded into high-, medium-, and low-score ranges. You also have the ability to customize the results that are displayed.

Assignment Results

Show: Assignment Results

Use the options below to view assignment scores. [Show options](#)

Section: Master Class (Test, SB) Report created: 12/03/2014 08:27:40 AM EST
 AP[®] Practice Test 1: Multiple Choice Questions Report date range: 11/18/2014 - 12/02/2014
 Attempt: Best Score style: Points
 Section average: 12.00 (21.82%) Total submitted: 1/2
 Assignment type: Homework Quiz Exam Practice Personalized Learning file attachment
 speech assignments writing assignments blog discussion board

[Export](#) [Print](#)

Select the checkboxes on columns you want to export or print. [Learn how to export these results into Blackboard or Blackboard Vista](#)

Student	AP [®] Practice Test 1: Multiple Choice Questions
Test, Student	55 pts
Test11, Student	12.00 *

- **Student performance**

See an individual student's scores, status of assignments, and time spent on each assignment.

Student performance

Show: Student Performance

Look up a student to view performance reports:
 Test11, Student
 Lock in all sections of this course (including those shared with colleagues)

Test11, Student [Submitted assignments results](#) [Assignments in progress](#)

Show: All assignments [Export to Excel](#)

Assignments	Score	Started	Submitted	Time spent (min)	Date scored
AP [®] Practice Test 1: Multiple Choice Questions Total Value (Points): 55.00, Average Score: 12.00 (21.82%)					
Attempt 1	12.00(21.82%) *	12/01/14 04:17PM EST	12/01/14 04:22PM EST	0:04	
AP [®] Practice Test 1: Free Response Questions Total Value (Points): 27.00, Average Score: 0.00 (0.00%) #					
Attempt 1	0.00(0.00%) #	12/01/14 04:23PM EST	12/01/14 04:27PM EST	0:03	

* Submitted past due date # Extension # Not yet graded

- **Assignment statistics**

See this Section's highest, lowest, and average scores on each assignment attempt, or compare multiple Sections' scores.

assignment statistics

Show: Assignment Statistics

View score statistics on submitted assignments. [show report options & settings](#)

Scores below are averages across attempts.

assignment statistics: Master Class (Test, SB)
 report created: 12/03/2014 8:22 AM EST
 assignment type: Homework, Practice, Quiz, Exam, Personalized Learning

Click on an assignment name to view attempt details.

[expand all](#) | [collapse all](#) [export to excel](#)

assignment	mean score	highest score	lowest score	# students submitted	# times submitted
AP [®] Practice Test 1: Multiple Choice Questions (1 attempts, 55.0 points)	12	12	12	1	1
Attempt 1	12	12	12	1	1

- Item analysis**
 See this section's average score on each question within a single question bank assignment, or compare multiple sections' scores. **NOTE:** Item analysis reports are only available for test bank assignments, such as the AP practice exams, and are not available for the Adaptive AP Content Review.

Item Analysis			
Section: Master Class (Test, SB)		Report created: 12/03/2014 8:23 AM EST	
Assignment: AP [®] Practice Test 1: Multiple Choice Questions		Students submitted: 1	
<input checked="" type="checkbox"/> Show first, last and best assignment attempts		<input checked="" type="checkbox"/> Show percentages	
Click a question to preview it. Expand a question to view student scores.			
Questions	First assignment attempt	Last assignment attempt	Best assignment attempt
+ Instructions	0.00%	0.00%	0.00%
+ The speaker establishes his argument chiefly...	0.00%	0.00%	0.00%
+ In lines 1-4 ("Among all kinds of writing...	0.00%	0.00%	0.00%
+ The speaker criticizes would-be humor ...	0.00%	0.00%	0.00%
+ The speaker claims that humor ...	100.00%	100.00%	100.00%
+ In the context of the entire passage...	100.00%	100.00%	100.00%

- Category analysis**
 See category results for a single question bank assignment, or compare multiple assignments' results. Categories are determined by criteria, such as learning objectives, that are tagged to questions within the assignment(s) you select. **NOTE:** Category analysis reports are only available for test bank assignments, such as the AP practice exams, and are not available for the Adaptive AP Content Review.

Category Analysis			
Section: Master Class (Test, SB)		Report created: 12/03/2014 8:25 AM EST	
Report date range: -			
Assignment: AP [®] Practice Test 1: Multiple Choice Questions			
Expand each category to see scores.			
Questions	Students submitted	Category score (Best assignment attempt)	
Difficulty Level: Average			
+ Difficulty Level: Average	28	1/2	17.86%
Difficulty Level: Basic			
+ Difficulty Level: Basic	13	1/2	38.46%
Difficulty Level: Challenging			
+ Difficulty Level: Challenging	14	1/2	14.29%

- At-risk report**
 Assess which students are at risk of falling behind so you can take action to remediate.

at risk student report show: At Risk Student Report ▾

Assess which students are at risk of falling behind and take action to remediate.

at risk student report: Master Class (Test, SB)

report created: 12/03/2014 08:26 AM EST

breakdown by risk

total students
2

- at risk 1
- keep watch 0
- safe 1

how online engagement works
Connect looks for patterns of online student activity to determine the engagement level of the student, including such events as the frequency of logins and assignment submission. Other factors that may affect prediction include special events or manual grading.

how to improve student performance
The more you use Connect in your course, the more opportunities Connect has to measure online engagement. By the second or third week of the term, Connect should have enough data to track students that have low online engagement. Click the "send message to student" button to convey your concern to the affected student(s).

students	online engagement indicator	remediate
Test, Student	1.0	send message to student
Test11, Student	10.0	

! The score you see for students' Adaptive AP Content Review within the grade reports is based on the percentage of the assignment students complete by the due date – not their performance. Therefore, it is NOT recommended that you base students' grades on the scores for this assignment.

Adaptive Assignment Reports

Because student progress on the Adaptive AP Content Review will not appear in the grade reports until either the student has completed the assignment (100%) or the due date has passed, Adaptive Assignment Reports are also available to help you track student progress through the Adaptive AP Content Review modules. Tracking student progress in this way will help you identify areas in which students are struggling, allowing you to intervene with targeted activities and assignments.

You can access the Adaptive Assignment Reports by clicking on Performance, selecting Reports, and then navigating to View All Reports **(A)**. Then, click on the LearnSmart Achieve link under Adaptive Assignment Reports **(B)**.

The screenshot shows the SCOREboard AP Biology interface. The top navigation bar includes 'Library', 'Performance', and 'My courses'. The 'Performance' dropdown menu is open, showing options like 'Assignment results', 'Student performance', 'Assignment statistics', 'Item analysis', 'Category analysis', and 'At risk report'. A red circle with the letter 'A' highlights the 'View all reports' link. Below the menu, a list of assignments is shown, including 'Adaptive AP Content Review', 'AP[®] Practice Exam 1', 'AP[®] Practice Exam 2', 'AP[®] Practice Exam 3', 'AP[®] Practice Exam 4', and 'Printable Practice Exams'. A red circle with the letter 'B' highlights the 'Adaptive Assignment Reports' link in the 'report types' section.

report types

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

- Assignment results**
See assignment scores listed by student and color-coded into high, medium, and low score ranges, and customize results.
- Student performance**
See an individual student's scores, status of assignments, and time spent on each assignment.
- Assignment statistics**
See this section's highest, lowest, and average scores on each assignment attempt, or compare multiple sections' scores.
- Item analysis**
See this section's average score on each question within a single question bank assignment, or compare multiple sections' scores.
- Category analysis**
See category results for a single question bank assignment, or compare multiple assignments' results. Categories are determined by criteria, such as learning objectives, that are tagged to questions within the assignment(s) you select.
- At-risk report**
Assess which students are at risk of falling behind and take action to remediate.
- Adaptive Assignment Reports**
[LearnSmart Achieve](#)
Review detailed student progress on LearnSmartAchieve study modules.

There are 7 reports for the Adaptive AP Content Review section of SCOREboard:

- **Overview By Assignment**

This report offers a summary of student progress on each LearnSmart Achieve assignment you have created for your class. In most cases you will have only one LearnSmart Achieve assignment (the Adaptive AP Content Review), but you may have others if you have chosen not to use the MasterClass and/or you break the content review into multiple assignments.

Overview by Assignment for section: Test								
Student	Time spent		Basic Economic Concepts		AO Economics		Last Accessed (UTC time)	E-mail
	on due date	total	on due date	total	on due date	total		
SR, Amy	00:05:21	00:05:21	0%	0%	11%	11%	Jul 7, 2015	student_test11@mhconnect.com

- **Performance Summary**

This report provides a summary of each student's performance as they proceed through the SCOREboard topics. You can see students' overall progress, time spent, and the number of questions they've answered, as well as the percentage they answered correctly, the percentage of times that they were wrong about their accuracy level, and when they last accessed SCOREboard's Adaptive AP Content Review. Click on the Details link **(A)** to see an individual student's progress in greater detail.

Performance summary for section: SCOREboard AP Psychology Masterclass 2014 (AP * Psychology)

Student	Overall progress	Time	Question Count	Initial diagnostic	Current Unaware	Last Accessed (UTC time)	De
S-R, Amy	8%	00:11:23	(37/74) 50%	0%	16%	Apr 18, 2014	Details

Each student's scores are explained in detail. Here you will see how each student performed on each of the topic overview sections. You can also find information such as time spent and the number of questions answered. The Adaptive AP Content Review pulls content from different topics for each study session, so content coverage will vary by student and number of study sessions completed. **It is not advisable to use these scores to grade your students. The Adaptive AP Content Review is intended as a study tool, not a quiz or exam.**

Performance Details for: S-R, Amy

- Scientific Inquiry

Topic	Progress	Weight	Time Spent	Question Count	Current unaware
Scientific Inquiry	14%	Total: 100%	00:02:05	(11/13) 84%	0%
History and Approaches	15%	25%	00:00:15	(2/2) 100%	0%
Research Methods	14%	75%	00:01:50	(9/11) 81%	0%

- Biopsychology

Topic	Progress	Weight	Time Spent	Question Count	Current unaware
Biopsychology	6%	Total: 100%	00:01:54	(6/12) 50%	33%
Biological Bases of Behavior	11%	55%	00:01:54	(6/12) 50%	33%
Sensation and Perception	0%	30%	00:00:00	(0/0) 0%	0%

- **Most Challenging Learning Objectives**

This report lists the learning objectives with which students in your class are struggling. You can use the dropdown menu (A) to toggle between viewing the challenging learning objectives for individual students, or for the class as a whole.

Most Challenging LOs for section: Test (All assignments)

All students ▾

Basic Macroeconomic Concepts

- Scarcity, choice, and opportunity costs

Summarize a society's economizing problem; list and describe the factors of production; explain why money is not an economic resource and why capital does not refer to money.

- Production possibilities curve

State that points lying inside the production possibilities curve are attainable, but they reflect less total output and therefore are not as desirable as points on the curve.

State that points on the production possibilities curve are attainable in production as long as the economy uses all its available resources.

State that points lying outside the production possibilities curve would represent a greater output than the output at any point on the curve.

- **Section Averages by Topic**

This report shows how well your class is performing on each topic and subtopic on which they have been evaluated. Use the scroll bar to see each Learning Objective being reviewed. If viewing this report in the early stages, notice the amount of questions being asked as well as how many were answered correctly. A score of 100% may not be very indicative if only one question has been asked.

Scientific Inquiry			
+ Topic: History and Approaches			
- Topic: Research Methods			
Topic/Learning Objective	Average time spent (hh:mm:ss)	Average correct/total	Average progress to date
			0% 100%
Research Methods	00:00:55	4/5	<div style="width: 82%;"></div> 82%
Experimental, Correlational, and Clinical Research	00:00:18	1/1	<div style="width: 100%;"></div> 100%
Recall the five steps in the scientific method	N/A	N/A	N/A
Recall the definition of experiment	00:00:08	1/1	<div style="width: 100%;"></div> 100%

- **Student Progress by Unit**

In this report, you can view your students' overall progress by each content topic unit. If viewing this report at an early stage in the review process, do not worry that a student's scores may fall into a red category. As you can see from this key, this percentage only represents a certain level of completeness, not accuracy. It is not advisable to use these scores as a grade for your students. The Adaptive AP Content **Review is intended** as a study tool, not a quiz or exam.

0% ● 1-25% ● 26-50% ● 51-75% ● 76-99% ● 100%										
Student	Time spent (hh:mm:ss)	Overall Progress	Scientific Inquiry	Biopsychology	Development and Learning	Cognition	Motivation, Emotion, and Persona...	Abnormal Behavior and Therapies	Social Psychology	E-mail
			Weight: 10%	Weight: 20%	Weight: 19%	Weight: 15%	Weight: 15%	Weight: 13%	Weight: 8%	
S-R, Amy	00:11:23	8%	14%	6%	5%	16%	0%	14%	6%	test_student1@mhconnect.com
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- **Student Progress by Topic**

Like the above report, the student progress by topic report provides a snapshot of how far a student has progressed through each topic in the Adaptive AP Content Review. Units are listed and you can use the plus sign to expand each unit to show the individual topics. Open the topics to see student performance, including time spent and progress.

+ Scientific Inquiry			
- Biopsychology			
- Topic: Biological Bases of Behavior			
Student	Time spent(hh:mm:ss)	Progress	Email
S-R, Amy	00:01:54	11%	test_student1@mhconnect.com
- Topic: Sensation and Perception			
Student	Time spent(hh:mm:ss)	Progress	Email
S-R, Amy	00:00:00	0%	test_student1@mhconnect.com

- **Metacognitive Skills**

When students answer a question in the Adaptive AP Content Review, they must also select their confidence level in their answer (I know it, Think so, Unsure, No idea). These selections are kept and reported to both you and the students in a report of metacognitive skills. In this report, you can see each student’s assessment of his/her confidence level. This can show you whether students are overconfident or uncertain when heading into the AP Exam. This report is the same as the Self-Assessment report visible from the student view within the Adaptive AP Content Review.

Aware columns: ● 0-25% ● 26-50% ● 51-75% ● 76-99% ● 100% Unaware columns: ● 0-25% ● 26-50% ● 51-75% ● 76-99% ● 100%					
Student	Correct & aware	Correct & unaware	Incorrect & aware	Incorrect & unaware	E-mail
S-R,Amy	● 54%	● 1%	● 25%	● 17%	test_student1@mhconnect.com
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The Student Experience

This section explains how students register for SCOREboard, use SCOREboard to complete their assignments, engage in self-study, and track their own progress with assignment reports.

Registering for SCOREboard

1. Go to the Section Web Address

To register for the Section you have created in Connect, students visit the Section Web Address provided on the Registration Sheet (see [Registering Students](#)).

2. Enter Email Address

After entering the Section Web Address into a web browser, students will be asked to enter their email address (**A**) to begin the registration process. This is the email address they will use to log in to Connect, as well as the email to which important messages will be sent.

3. Create an Account

If students do not already have a Connect account, they will be asked to create one at this time (**B**). To create an account, they will need to provide a password for their account, their name, and the answer to a security question.

If the student already has a Connect account, he or she will be asked to provide the account password.

4. Enter the Registration Code

Students will then be asked to enter their 20-digit registration code (**C**) for SCOREboard. This code was provided to you or your school at the time SCOREboard was purchased.

connect®

Welcome

Join this class

SCOREBOARD FOR AP CHEMISTRY
AP CHEMISTRY EXAM PREP

INSTRUCTOR
CAITLIN UTTLEY

SCOREBOARD FOR AP CHEMISTRY
(V.2)
ADVISORY BOARD ADVISORY
BOARD, 2ND ED.
AP Chemistry

Enter your email to join this class:

Email

BEGIN

Already in this class? [Sign In](#)

Need help? [Contact customer service](#)

McGraw Hill Education connect®

HELP | EXIT

Create your McGraw-Hill Education account.

Email Address

student@connecttest.com Confirm Email Address

Password

Password Confirm Password

Full Name

First Name Last Name

Security Question And Answer

Select a Question Security Answer

We'll ask you this question to retrieve your password.

I agree to the terms of the McGraw-Hill Education [Terms of Use](#) and [Privacy Notice](#).

I'd like to receive information about other McGraw-Hill Education products, services, and promotions that relate to my course. I understand that if I choose not to receive these additional notifications, I will still receive important information about my McGraw-Hill Education Account.

NEXT STEP

Instructor:
Caitlin Uttley

Board Advisory
Board: SCOREboard
for AP Chemistry
(V.2)
2ND EDITION
Advisory Board

McGraw Hill Education connect®

HELP | EXIT

Have an access code?

What's this?

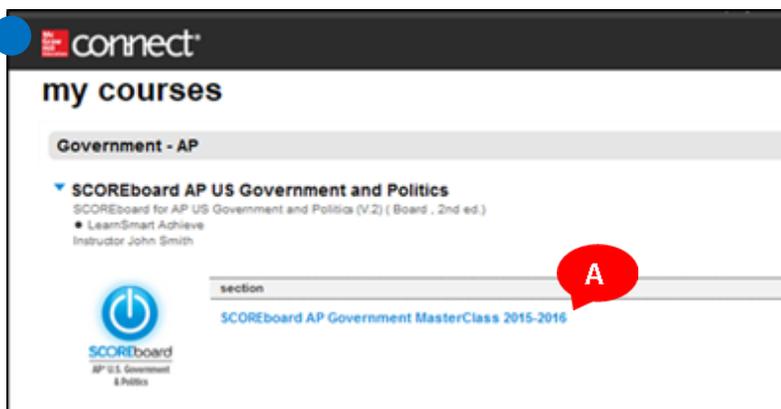
SUBMIT

Instructor:
Caitlin Uttley

Board Advisory
Board:
SCOREboard for
AP Chemistry
(V.2)
2ND EDITION
Advisory Board

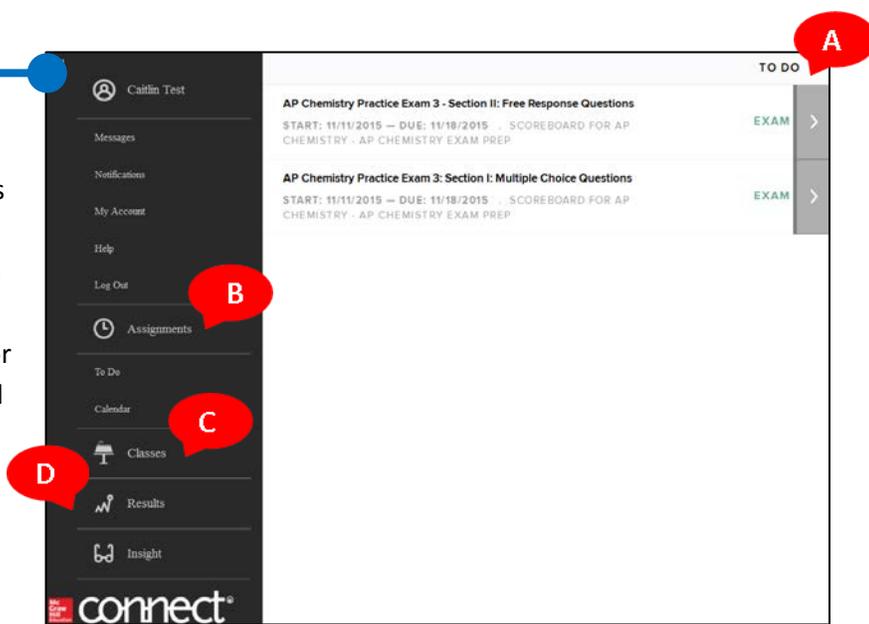
Accessing SCOREboard

After registering, students can access SCOREboard by logging in to connect.mheducation.com. After logging in, they will see “My Courses” – a list of courses for which they are registered. They can access SCOREboard by clicking on the blue section name next to the SCOREboard icon (A).

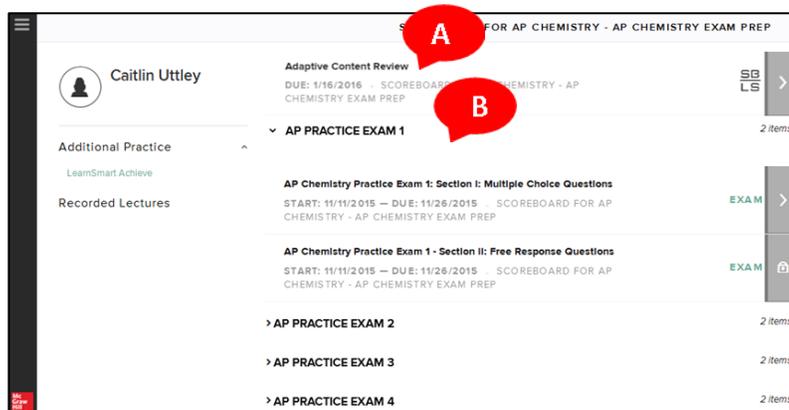


Navigating the Course

When students enter SCOREboard, they will be taken to their TO DO list (A). The TO DO list shows all assignments due within the next 48 hours. Students can toggle between the TO DO list and a Calendar view of their assignments in the Assignments menu (B). To view all assignments for SCOREboard, students can click on Classes (C) and choose their Section. To view their results for submitted assignments, students can click on Results (D).



By default, students have been assigned the Adaptive AP Content Review (A), and the AP Practice Exams (B).



To get more details about an assignment, students can click on the assignment name. This will open a window **(A)** that will provide the assignment details, include: the start and due dates, the point value of the assignment, and the time limit and number of attempts allowed (if applicable).

AP Chemistry Practice Exam 3: Section I: Multiple Choice Questions

Exam

2 hours and 0 minutes to complete

Start: Nov 11, 2015 at 12:17 PM EST
Due: Dec 18, 2015 at 11:59 PM EST

2 hours and 0 minutes left

Attempt 1 of 1 in progress...

600 POINTS POSSIBLE

CONTINUE

Using the Adaptive AP Content Review

The Adaptive AP Content Review is intended as a study tool to help prepare students for their AP exams. The tool uses a combination of adaptive questioning and targeted learning resources to help students gain mastery of the subject matter. The Adaptive AP Content Review continually evaluates student understanding and adapts the material to focus on the areas in which students are struggling.

1. Study Schedule

The first thing students will do in the Adaptive AP Content Review is build a study schedule. Students choose the number of days per week and minutes per day they would like to study (the due date will be pre-set to the default assignment due date in the Master Class, or whatever due date the teacher has chosen for this assignment).

The study schedule will determine the frequency of study and will enable LearnSmart to both deliver an appropriate amount of review material during a study session and track student progress.

Note that students will only be required to set this schedule during their first study session, but they can adjust it at any time.

AP European History V2

Sections

Assignment

Recharge

Reports

Library

How to

Let's build your study schedule

Deadline: 05/03/2016

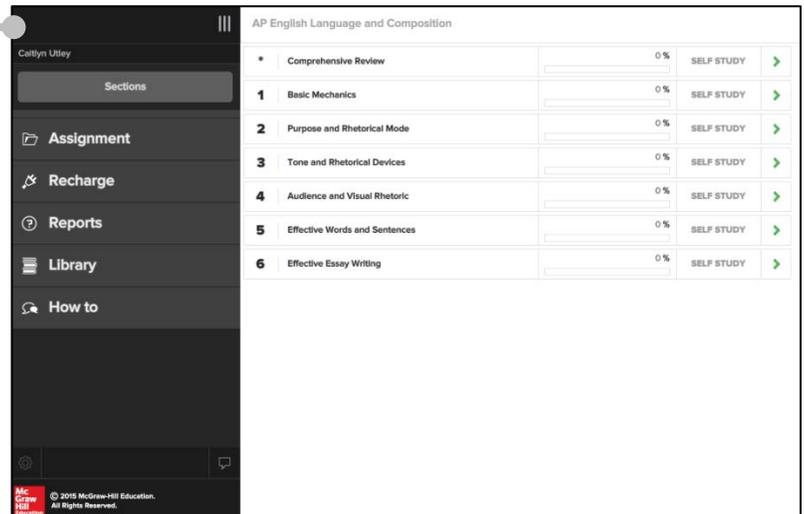
Days per week:

Minutes per day:

Practice time: 25 minutes per day, 5 days a week

2. Choose the Assignment

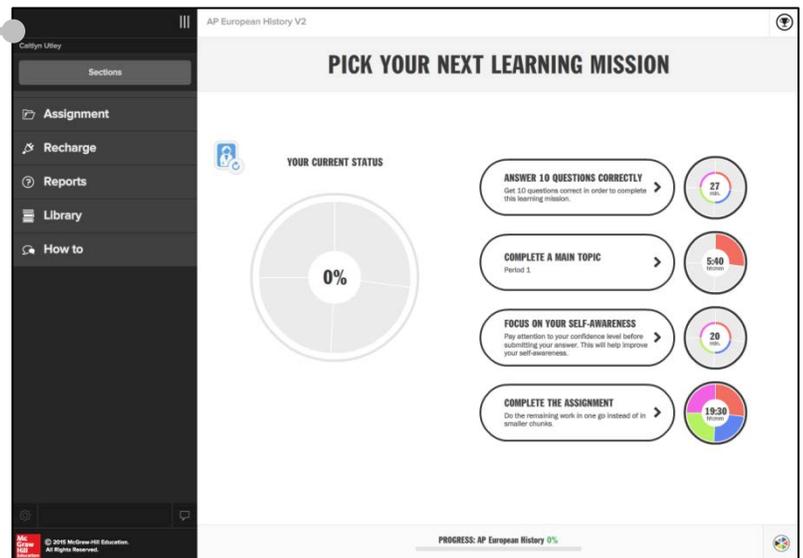
From the Assignment menu, students choose how to approach their study. Choosing Comprehensive Review will present all content topics in a random order – similar to how they will encounter topics on the actual AP exam. Choosing one of the topics, Main Ideas, or Time Periods will allow students to focus their study on one area of content at a time.



3. Choose a Learning Mission

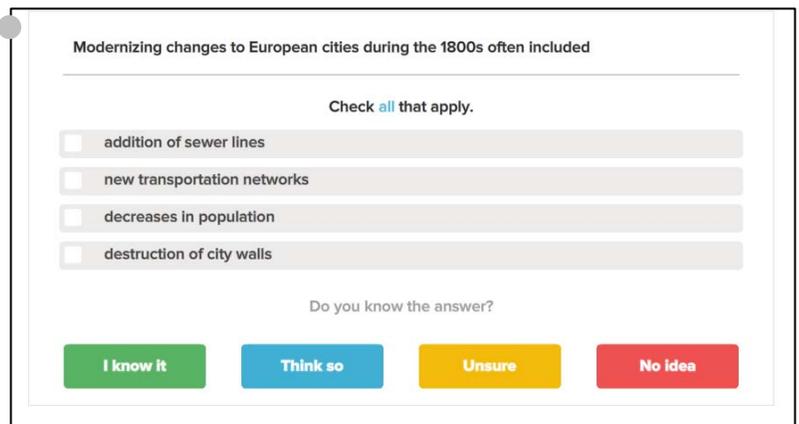
Next, students choose a learning mission. A learning mission is like a mini-goal that helps to break the assignment up into small, achievable pieces. Progress made during learning missions will always count toward overall assignment progress.

Students also have the option to simply “complete the assignment,” which allows them to work through the material without using learning missions.



4. Content Review

Whether students choose a learning mission or simply choose to “complete the assignment,” content is presented in the same way – through a series of questions and learning resources. Questions come in many forms, including multiple choice, multi-select, fill-in, and drag-and-drop. When students answer the questions, they will also be asked their confidence level: I know it, Think so, Unsure, or No idea. This confidence level helps LearnSmart gauge whether or not students really understand the material so it



can adjust the content accordingly. Because student comprehension varies, individual students may receive more or fewer questions depending on their performance and confidence level.

Students are provided with immediate feedback about whether an answer is correct or incorrect. For many key concepts, when students answer a question incorrectly they are presented with Suggested Resources to help teach and reinforce the content.

Which of these is the fundamental controversy regarding federal grants-in-aid and federalism?

Sorry, your answer is incorrect.

They are too expensive.

Missed! The money comes with strings attached, which allows the national government too much control over state policy making.

The grants carry no conditions, which means the states may not spend the money on the intended purpose.
On the contrary, federal grants generally come with "strings" attached, limiting how the money may be spent.

The national government does not use a fair and equitable process when distributing grant money.

Challenge OK

SUGGESTED RESOURCES

Slide

Library

5. Learning Resources

Learning Resources present text, audio, video, and animations to help teach and reinforce concepts with which students are struggling.

Learning Resources appear as Suggested Resources at point-of-use when a question about an important concept is missed. Students can also access the complete bank of available Learning Resources via the Library at any time.

Caitlyn Utley

Sections

Assignment

Recharge

Reports

Library

How to

Organisms cannot exist without amino acids, peptides, nucleic acids, and proteins. All of these organic compounds contain nitrogen. Nitrogen makes up 78% of the atmosphere, but most atmospheric nitrogen cannot be used by living organisms in their form.

Plants take up, or assimilate, nitrogen from the environment. Primary consumers eat plants and obtain the nitrogen stored within. Secondary consumers eat the primary consumers and obtain nitrogen that way (and so on). But where do plants get nitrogen?

Look at the image of the nitrogen cycle on the right. Nitrogen-fixing bacteria live in root nodules of plants. In soil, in freshwater, and in salt water, bacteria "fix" atmospheric nitrogen by converting it with hydrogen to form ammonia, which plants are able to assimilate. There are multiple ways that nitrogen can be "fixed": bacteria living in root nodules, soil, freshwater, or salt water can "fix" nitrogen. It can also be "fixed" by manmade processes such as the Haber-Bosch process or by the combustion of fossil fuels, and by natural processes such as lightning strikes or volcanic eruptions.

The nitrogen cycle

Learning and animation of the nitrogen cycle. The nitrogen cycle is a biogeochemical cycle that describes the movement of nitrogen within and between the atmosphere, land, and water. Nitrogen is an essential element for life, and the cycle ensures that it is available to all organisms. The cycle involves several key processes, including nitrogen fixation, nitrification, and denitrification. The diagram shows the cycle in a circular flow, with arrows indicating the direction of movement. The cycle is divided into several stages, including the atmosphere, soil, and water. The cycle is a continuous process, and the nitrogen is recycled over and over again.

Give Feedback

Back to Library

6. Reports

Students have access to several progress reports for the Adaptive AP Content Review. They can access the progress reports at any time by selecting Reports in the menu.

Caitlyn Utley

Sections

Assignment

Recharge

Reports

Topic Scores

Missed Questions

Most Challenging LO's

Self-Assessment

Tree of Knowledge

Practice Quiz

Library

How to

Topic Scores

View the modules and sections you struggled with the most. You can look up each challenging section for more study.

Missed Questions

View frequently missed questions. You can practice questions you recently got wrong.

Self-Assessment

View how aware you were of whether or not you knew the answers. This awareness can help you study more effectively.

Within the Reports section, students have several options. The first is **Topic Scores**. With Topic Scores, students can see the time spent studying each content topic, as well as their overall progress through the topic's content.

Unit/Topic	Time spent (hh:mm:ss)	Progress
Constitutional Underpinnings of United States Government	00:00:37	8%
The formulation and adoption of the Constitution	00:00:04	3%
Separation of powers	00:00:32	25%
Checks and balances	00:00:00	0%
Federalism	00:00:00	0%
Theories of democratic government	00:00:00	0%
Political Beliefs and Behaviors	00:00:44	14%
Political Parties, Interest Groups, and Mass Media	00:00:15	3%
Institutions of National Government	00:00:25	5%
Public Policy	00:02:56	2%
Civil Rights and Civil Liberties	00:00:27	12%

The **Missed Questions** report lists all questions that students have answered incorrectly within each topic. Students are given multiple opportunities to answer a question, so as soon as the question is answered correctly it will disappear from this list.

From the Missed Questions report, students can click on a question for an immediate opportunity to try the question again.

View the questions you frequently answered incorrectly. You can try questions again for additional practice.

Select a specialty to see some of your most frequently missed questions. Then select a question to try it again.

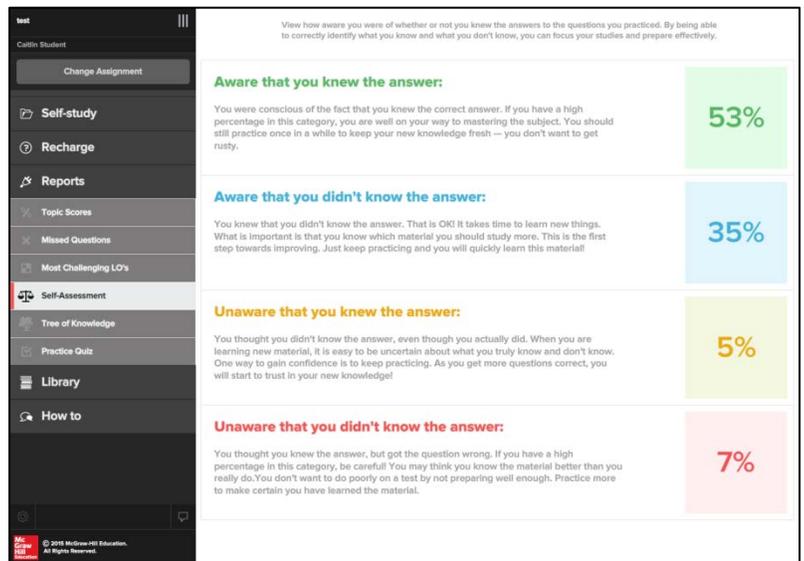
Constitutional Underpinnings of United States Government

What are the special presidential powers typically exercised during times of national crisis?

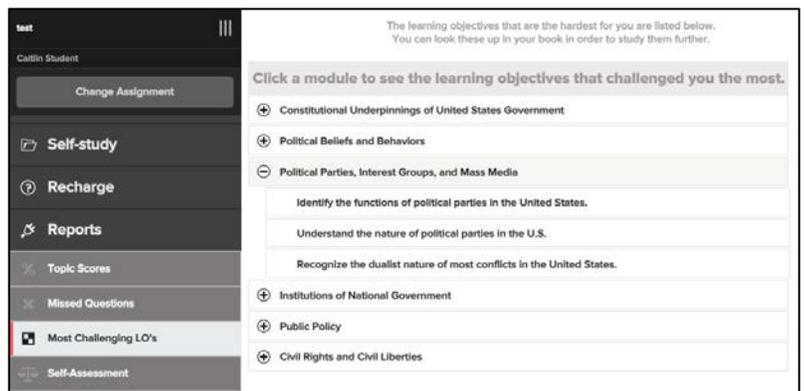
Power clearly granted to presidents by Congressional action is known as _____ power.

- Political Beliefs and Behaviors
- Political Parties, Interest Groups, and Mass Media
- Institutions of National Government
- Public Policy
- Civil Rights and Civil Liberties

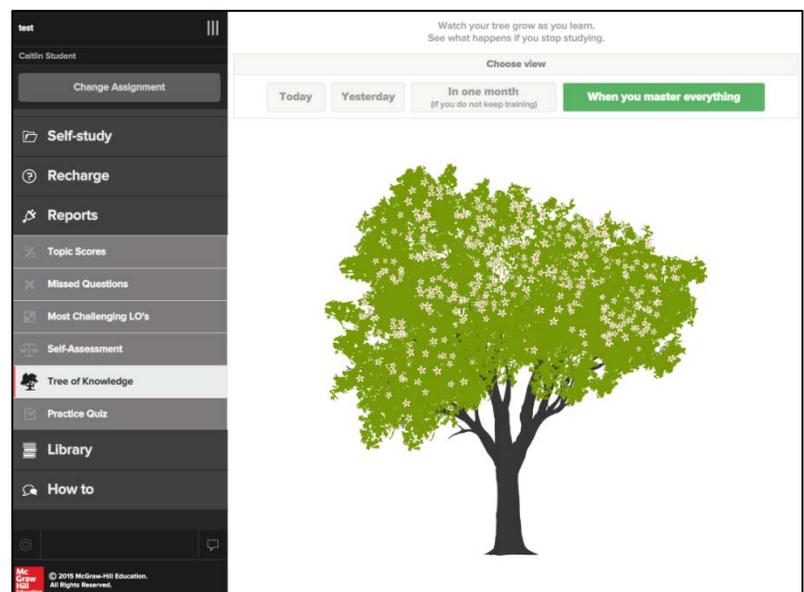
The **Self-Assessment** report allows students to see an evaluation of their self-determined confidence levels. This report is the same as the Metacognitive report available to teachers.



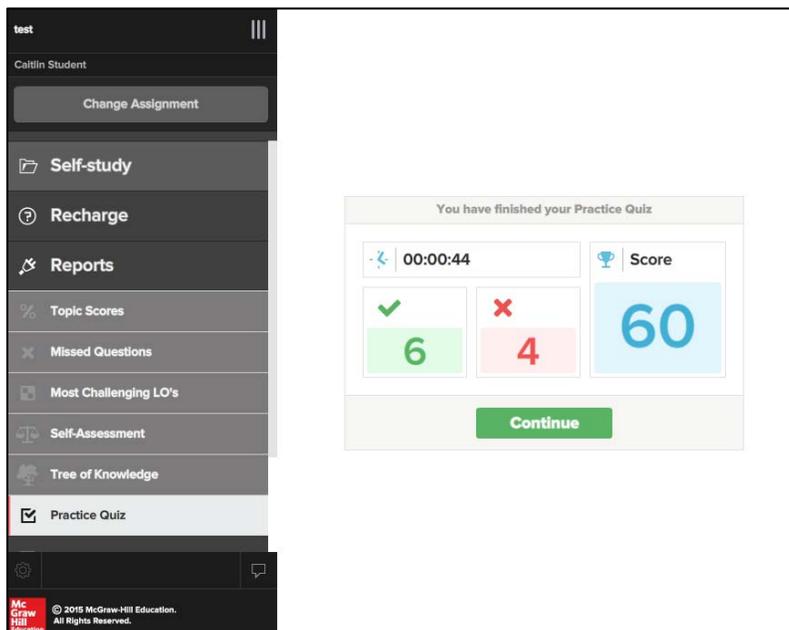
The **Most Challenging LOs** report lists the Learning Objectives students are having the most difficulty mastering. Clicking on a Learning Objective in this report will give students another opportunity to answer questions to demonstrate mastery of the Learning Objective.



The **Tree of Knowledge** is a visualization that shows how students' knowledge "grows" over time. As more content is mastered, the student's tree grows.

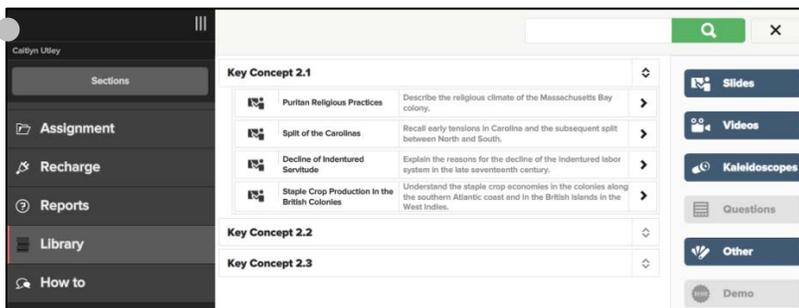


In the **Practice Quiz** section of the student reports, students can create and take their own practice quizzes by selecting the topics they want to include and the number of questions they want to answer. Students have access to their previous quiz results at any time so they can self-evaluate their own progress.



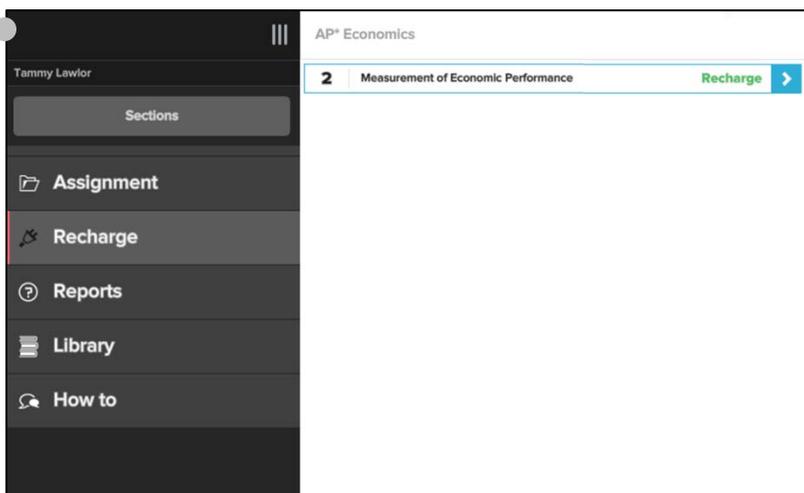
7. Library

At any time, students have access to a library of learning resources, organized by topic, from which they can review content. This library is also searchable, so students struggling with specific concepts can find learning resources to help them. In addition to Learning Resources, the library includes every question available in the Adaptive AP Content Review.



8. Recharge

Based on students' performance, LearnSmart identifies topics students are likely to forget and resurfaces them in the Recharge section after enough time has passed. With this feature, students are asked questions about topics again in order to "recharge" their memory and ensure long-term retention.



Taking the AP Practice Exams

Students are pre-assigned the AP Practice Exams in SCOREboard. Each exam is made up of questions that mimic the content and style of the questions students will encounter on the AP exam. Each practice exam also has a time limit that matches the time limit given on the actual AP exams. If students do not finish the practice exam within the time limit, the score will automatically be submitted to the teacher.

- **Exam Parts**

AP Practice Exams may be divided into multiple parts, such as multiple choice and free response questions. Students should take care to complete all parts by the assigned due date.

AP PRACTICE EXAM 1 2 Items

AP Chemistry Practice Exam 1: Section I: Multiple Choice Questions
START: 11/11/2015 — DUE: 11/26/2015 — SCOREBOARD FOR AP CHEMISTRY - AP CHEMISTRY EXAM PREP EXAM >

AP Chemistry Practice Exam 1 - Section II: Free Response Questions
START: 11/11/2015 — DUE: 11/26/2015 — SCOREBOARD FOR AP CHEMISTRY - AP CHEMISTRY EXAM PREP EXAM 🔒

- **Exam Experience**

The question topics and types reflect those on the actual AP exam. Students answer all questions electronically, and submit them for grading.

Multiple choice questions are auto-graded by Connect, so students can see their results and detailed feedback as soon as they have submitted that part of the exam. Free response questions must be manually graded. Self-assessment rubrics are available for free-response questions.

AP Chemistry Practice Exam 3: Section I Multiple Choice Questions... Help Save & Exit Submit

1
10 Points

Required Information
Note: For all questions, assume that the temperature is 298K, the pressure is 1.00 atm, and solutions are aqueous unless otherwise specified.
Directions: Each of the questions or incomplete statements below is followed by four suggested answers or completions. Select the answer that is best in each case and then fill in the corresponding circle on the answer sheet.

(a) (b) (c) (d)

Based on the diagram above, identify the set that represents a physical change.

Multiple Choice

(a) to (b)

(a) to (c)

(a) to (d)

both (a) to (b) and (a) to (d)

AP Chemistry < Prev 1 of 60 Next > Resources

- **Exam Feedback**

As soon as students submit a practice exam for grading, they are able to view feedback for multiple choice questions that are auto-graded by Connect. Short answer and free response question feedback is available after the teacher has finished grading the assignment. Students can access the feedback report by opening the course menu and choosing their class under Results (A). Click on the assignment score for each assignment (B) to see detailed feedback.

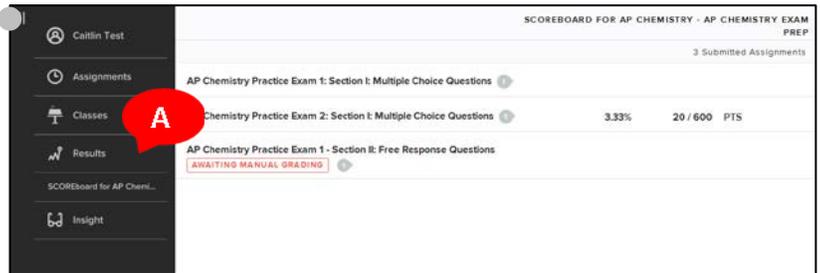
Detailed question feedback for auto-graded questions is provided, regardless of a correct or an incorrect answer.

Viewing Results

Students can view their results on completed assignments at any time in Connect.

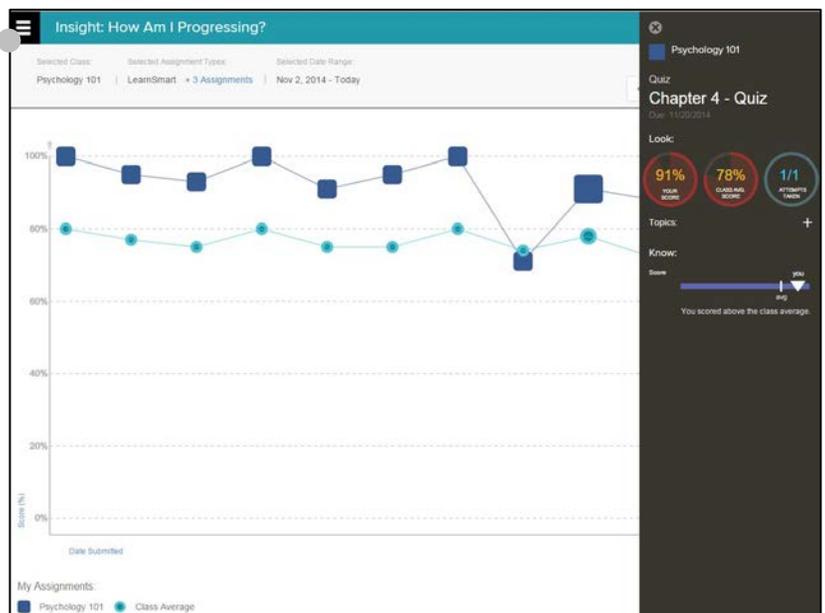
- **Results**

Students can access their grades by clicking on Results (**A**) and selecting their class. All completed assignments will be listed, but scores and feedback will only be available for assignments that have been fully graded (and are not awaiting manual grading).



- **Insight**

With Insight, students have a visual representation of their performance across assignments and over time. Insight uses metrics including score and time spent on an assignment to help students analyze their own progress.



Tablet Users

Students who wish to use SCOREboard on a tablet can do so using McGraw-Hill apps.

- **MHE Connect**

Students access their SCOREboard course using the MHE Connect app on an iPad or Android tablet. Through the app, students can access and complete the AP practice exams, view grades, and more. (NOTE: if a student opens the Adaptive Content Review assignment within this app, they will be taken to the LearnSmart Suite app.)



- **LearnSmart Suite**

With the LearnSmart Suite app, students can complete the Adaptive Content Review in SCOREboard on an iPad or Android tablet.



- **Browser Apps**

Students can also use browser apps, including Chrome and Safari, to access their SCOREboard course. Simply open the app and go to connect.mheducation.com.

Additional Support

Resources and How-to

Implementation Guides, Quick Start Guides, Instructional Videos, and additional resources for using McGraw-Hill Education's Advanced Placement digital products can be found at <https://www.mheonline.com/apresources>

Additional in-depth resources for learning how to use Connect can be found at <http://mpss.mhhe.com/connectlinks>

Technical Support

For Technical Support, please contact a McGraw-Hill Education Technical Support Representative:

By phone: 1-800-437-3715 (Monday-Friday, 7:00 am - 8:00 pm (Eastern Time))

By email: epgtech@mheducation.com

Online: <https://www.mheonline.com/epgtechcontact>