



Transform Your Classroom!

Glencoe Biology: Leveraging technology to drive personalized student success while engaging and motivating students with hands-on, project-based activities and real-world applications.

The increased pace of change in education in the last few years has created seismic shifts in the delivery and consumption of educational materials. Students want to connect what they learn in the classroom to what they see happening in the real world – today!

Helping students draw these parallels and keeping them engaged is what McGraw-Hill Education is all about.

We deliver to you the most effective, innovative, and inspiring high school biology curriculum that meets both Next Generation Science Standards (NGSS) and local science standards.

Glencoe Biology is designed to be universally accessible to a broad range of learners enrolled in a first year high school biology curriculum. Glencoe Biology combines dynamic content, engaging lab experiences, and a rich array of resources to ensure every student understands the "Big Ideas" in biology

Whether you're looking for a hybrid digital-print or a digital-first program, Glencoe Biology gives you proven, comprehensive content with real-world applications to help your students lead the way in biology!

Motivate students to engage real-world problems with these interactive digital tools:

- · Concepts-in-Motion
- Science and Engineering Practices Handbook
- Virtual Investigations
- Project-Based Learning Activities (PBLs) and Applying Practices Worksheets
- · Games, Videos, and Models

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RAMP UP THE ENGAGEMENT... With Interactive Learning

Motivate your students with hands-on, project-based activities and real-world application. These program resources ramp up your students' engagement with biology like never before!

- Student eBook with highlighter and note-taking tools.
- Sciences and Engineering Practices Handbook with accurate reference material and real-world examples.
- Online Personal Tutor to guide students through select biology content.
- · ConnectED Mobile gives you the ability to manage all your teaching content offline.

Engaging Student Resources

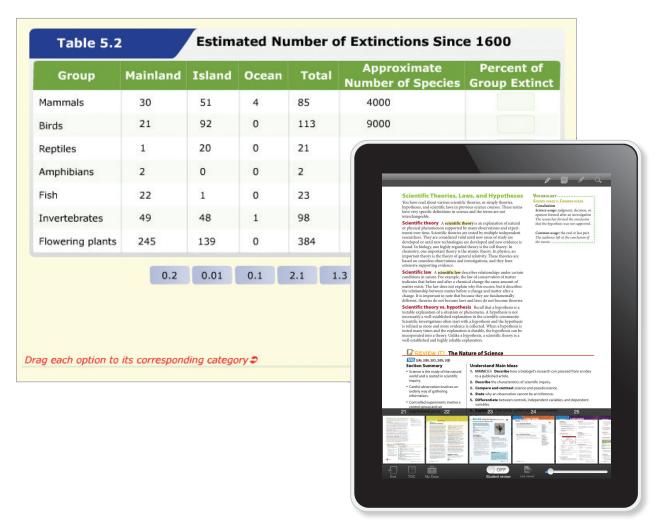
Give your students the resources they need to maximize biology-in-action! The Student eBook helps students turn biology in the real world into learning moments by giving students access to their program materials and resources anytime and anywhere.

Empower students to learn from biology as-it-happens with the Student eBook which learners can access anytime and anywhere using the Open eBook icon.

Help students build active learning skills using these interactive tools:

- · Step-by-step example problems with coaching notes and practice problems at point-of-use.
- · Highlighter and note-taking tools.
- Worksheets and digital asset links in ConnectED.

The ConnectED Mobile app gives you complete access to your eBook, alongside planning tools, reference materials, and other program resources. ConnectED Mobile is available on select iOS and Android™ devices.



The eBook in ConnectED Mobile is available offline for home use if students do not have access to the web.

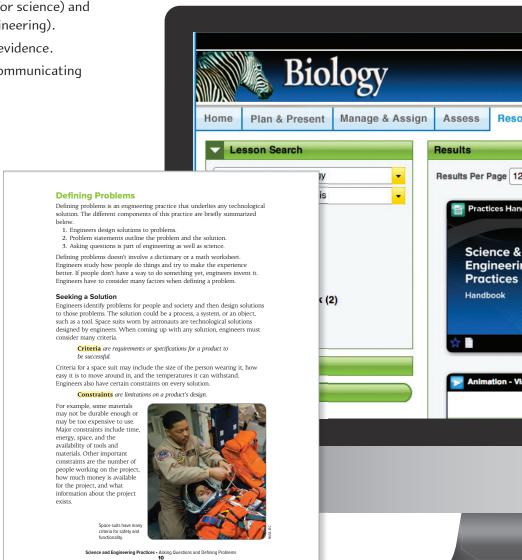
Real-world Connections

Be confident helping students achieve more! Use the *Science and Engineering Practices Handbook* to introduce the practices to students and support their scientific investigations and engineering projects.

A reference book, the *Science and Engineering Practices Handbook* provides students with background information, definitions, examples, and Quick Practice activities to stimulate learning through practice.

The Science and Engineering Practices Handbook is an easy-to-use reference for all eight practices.

- 1. Asking questions (for science) and defining problems (for engineering).
- 2. Developing and using models.
- 3. Planning and carrying out investigations.
- 4. Analyzing and interpreting data.
- 5. Using mathematics and computational thinking.
- 6. Constructing explanations (for science) and designing solutions (for engineering).
- 7. Engaging in argument from evidence.
- 8. Obtaining, evaluating, and communicating information.



Find the **Practices Handbook** in your teacher resources.

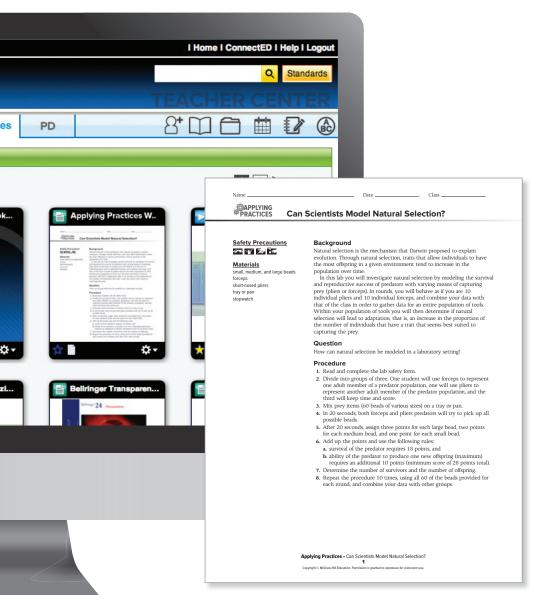
Interactive Student Resources

Written to meet each Next Generation Science Standard (NGSS) performance expectation, Applying Practices Worksheets and Project-Based Learning Activities (PBLs) challenge your students to solve real problems in the real world. These sheets are editiable, downloadable, accessable online, and designed to meet specific performance expectations.

Interactive student resources, learning activities, and worksheets are embedded for point-ofuse access. Students can use these dynamic resources immediately to practice new concepts.

Students practice biology in action with these learning tools.

- Project-Based Learning Activities that integrate traditional science content with engineering content.
- Design-your-own labs.
- · Guided Laboratory Investigations.
- · Modeling activities.
- · Research and communicate projects.



Find Applying Practice Worksheets in your teacher resources and teacher blades. Also accessible at point-of-use in student resources.

Science in Action

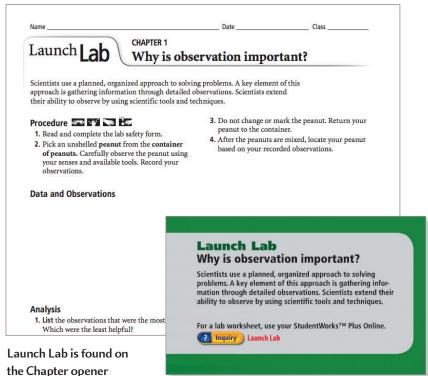
Glencoe Biology offers you diverse lab opportunities to deepen your students' understanding of science by experiencing it and experimenting with biology first-hand!

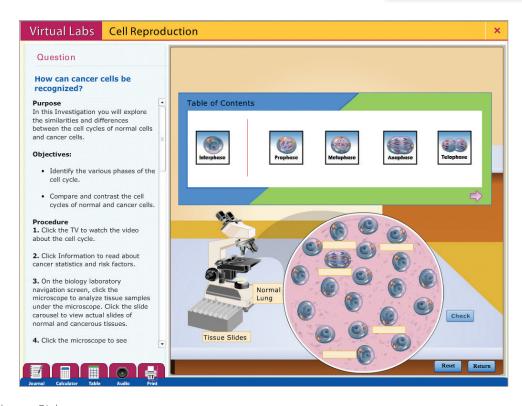
Use these lab activities included in every chapter to bring science to life for your students.

- Launch Labs
- MiniLabs
- Data Analysis Labs
- BioLabs

More lab resources are available to you through ConnectED, including:

- Lab Manual
- Forensic Labs
- Open Inquiry Labs
- Guided Inquiry Labs
- Pre-AP Labs
- Probeware Labs
- Video Labs
- Virtual Labs







TIME SAVING TECHNOLOGY...

Creates interactive digital solutions

To meet you wherever you are on the digital spectrum, Glencoe Biology interactive learning and teaching resources are easy-to-use, whether you're a technology novice, digital native, or somewhere in the middle.

• ConnectED is your digital teaching platform making it easy and convenient to customize lessons, review assignments, and communicate with students.

Effective Teaching and Learning

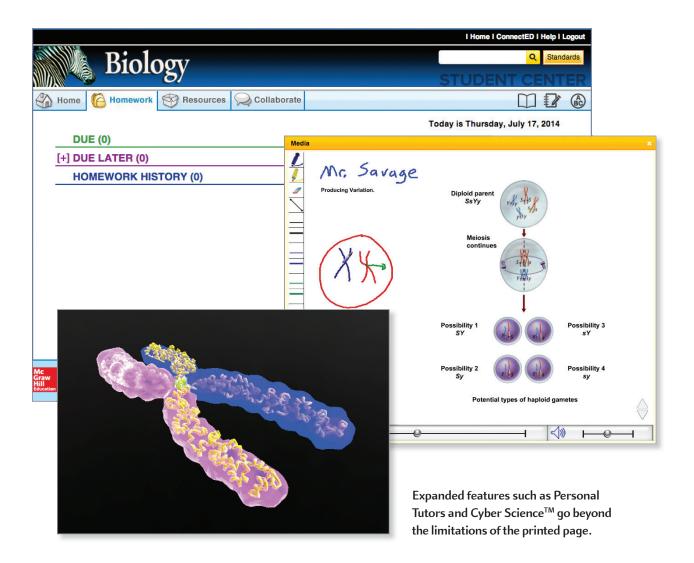
The new **ConnectED** digital platform for high school science brings a new level of engagement and effectiveness to your classroom.

A one-stop shop where you access Student eBooks, assessments tools, worksheets, presentations, messaging tools, and so much more!



Plan, Teach, and Assess with ConnectED

- Plan and present personalized lessons with intuitive editing tools.
- Send and receive classroom assignments electronically to your students'
 ConnectED accounts.
- Create and customize premade diagnostic and summative evaluations using eAssessment.
- Access and review notes students take in their eBooks to plan class time and assignments more effectively.
- Search curriculum by keyword or standard.
- Offers tools such as My Files, Planner, Notebook, and eGlossary.
- · Communicate with students using Message Center.



Apply Interative Practice

Students have their own digital learning platform called ConnectED Student Center, complete with student worksheets and digital resources. Assignments you create appear in their to-do lists. Students can message you directly and submit their work.

With ConnectED Student Center, your students can access their class resources anytime, anywhere.

Use expanded Student Center features such as Personal Tutors and Cyber Science 3D™ videos to go beyond the limitations of the printed page and bring science into your student's lives like never before.

Encourage students to see science all around them with Biology MiniGames. These fun MiniGames present key biology topics from course material using sci-fi themed games with their own style and plot.



EFFECTIVE RESULTS... To support student success

Easy-to-use eAssessment and reporting tools equip you with the data you need to make informed instructional decisions and keep students engaged.

- eAssessment supports diverse types of evaluations and includes online scoring and report generation for digital and/or print distribution.
- LearnSmart® an interactive and adaptive learning system, effectively differentiates and supports struggling and advanced learners alike.
- Professional Development resources including pertinent information on new science standards and implementation best practices are available to you at point-of-use.

Turn Students into Star Performers

Turn your classroom into a biology success center with eAssessment suite – a robust resource qiving you powerful tools to assess student progress and make data-driven instructional decisions.

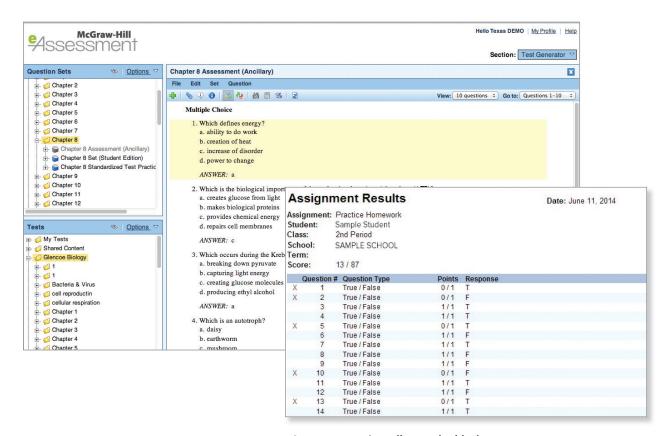
The eAssessment reporting feature means you'll always have access to valuable data on

individual students and whole classes to help you differentiate and support student mastery of concepts appropriately.

Other features of eAssessment to help increase your efficiency:

- Question Bank with questions organized by strand, subject, and lesson.
- Assessment creation or customization of premade assessments.
- Report generation on proficiency and accuracy.

Identify students with knowledge gaps to make data-driven instructional decisions with eAssessment.



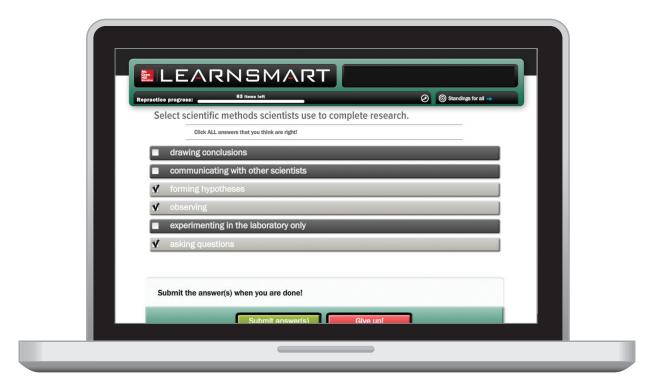
eAssessment suite collects valuable data for every student and the class.

Increase Knowledge Retention

Increase retention of material, improve students' performance, and make your class more interactive and productive with proven adaptive learning system, LearnSmart®.

As an interactive and adaptive learning system, LearnSmart® is designed to help students learn faster, study more efficiently, and retain more knowledge for greater success. Both dynamic and progressive, LearnSmart® adjusts biology concepts to align with each student's progress, based on their demonstrated skill and performance.

No two students learn the same way. LearnSmart® personalizes content for each student's unique learning needs.



Pinpoint knowledge gaps for individual students and across classes.

Empower students to personalize their learning experience with optimal learning paths so they spend more time on what they don't know with LearnSmart®.

- Practice of basic biology concepts to improve recall and application before moving on.
- Additional exposure and increased practice to master new concepts.
- Presentation of concepts individual students struggle to master.

Transform Your Classroom

In just a few clicks, you can quickly access relevant, timely, and ongoing Professional **Development** videos and webinars available to you, on-demand.

Directly embedded in Glencoe Biology is your interactive professional learning program. Learn how other science educators have successfully implemented the program and increase your awareness of new science standards.

Relevant Resources for science educators.

Rich, web-based resources include modeled classroom instruction videos, implementation support, technology resource optimization, and professional learning community support.

Use the ConnectED, **Professional Development** tab to access on-demand webinars and these free video libraries:

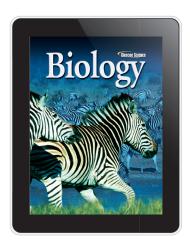
- Dinah Zike/Foldable Videos
- Mathematical Practice Videos
- Pedagogical/Instructional Support Videos
- Digital Instruction Videos
- STEM Videos

Customized, comprehensive, and expertly-crafted solutions translate into meaningful program success.



Biology Biology

Transform Your Classroom!



Sample and Discover Online mheonline.com/onlinesamples/science

