



# SCIENCE RESOURCES

GRADES 9-12

# About BIOZONE

## *Inspiring better outcomes for our planet through science education.*

BIOZONE has more than 30 years' experience across the United States, New Zealand, Australia, United Kingdom, along with a global footprint of dedicated educators for the development of engaging and effective resources for high school science teaching and learning in both printed and digital formats.

Our unique point of difference is that we have combined the very best features of a highly visual textbook (using an infographic style) with that of an interactive workbook – resulting in a unique hybrid configuration: an interactive text.

BIOZONE's authors have both science degrees and high school teaching experience. Despite our diverse range of science backgrounds and experience we consult widely with our audience to ensure bring the very latest sound scientific and pedagogical principles to all of BIOZONE's titles.

The result? Accessible, yet rigorous, programs designed to engage learners of all types.

Our extraordinary suite of resources meet the challenges of teaching today's students, whether they be in a traditional classroom environment, an informal teaching setting or learning remotely.

**Pictured:**

Photo by Salman Rameli  
Unsplash

**Cover Image:**

Horned Lizard (*Phrynosoma*)  
Adobe Stock





## Our Writing Team



**Jill Mellanby** MLIS; B.Sc.(hons); PGCE(Sec); Dip. Pub.

Jill began her science career with a degree in biochemistry and, after a short spell in research labs, became a science teacher both in the UK and then New Zealand. She spent many years managing the Royal Society of New Zealand's academic publishing program of eight science journals which allowed her to hone her project management and editorial skills. She was also a part of the Expert Advice writing team at the Royal Society of New Zealand, producing science pieces for a public audience. She joined the **BIOZONE** team in late 2021 as editor.



**Lissa Bainbridge-Smith** M.Sc (hons)

Lissa graduated with a Masters in Science (hons) from the University of Waikato. After graduation she worked in industry in a research and development capacity for eight years. Lissa joined **BIOZONE** in 2006 and is hands-on developing new curricula. Lissa has also taught science theory and practical skills to international and ESL students.



**Sarah Gaze** M.Ed., GradDipT (Sec), B.Sc.

Sarah has 16 years experience as a Science and Chemistry teacher, recently completing MEd. (1st class hons) with a focus on curriculum, science and climate change education. She has a background in educational resource development, academic writing, and art. Sarah has recently joined the **BIOZONE** team at the start of 2022.



**Kent Pryor** B.Sc, GradDipT (Sec)

Kent has a BSc from Massey University majoring in zoology and ecology and taught secondary school biology and chemistry for 9 years before joining **BIOZONE** as an author in 2009.

# What's NEW at BIOZONE

We have been working hard to develop some creative solutions to assist teachers in the classroom and beyond.



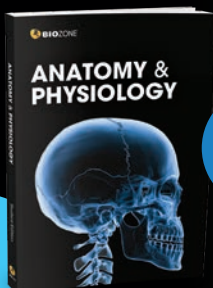
## BIOZONE WORLD

**BIOZONE** is excited to announce the launch of **BIOZONE WORLD**. A stunning new science content delivery platform that brings together all of our digital resources for easy access.

**BIOZONE WORLD** incorporates digital replicas of our highly acclaimed print titles together with our rich digital collection of Presentation Slides, 3D models, curated OER videos and links to OER websites, thereby providing powerful and flexible options for delivering your high school science programs. Educators can easily plan lessons, assign work, and grade student responses.

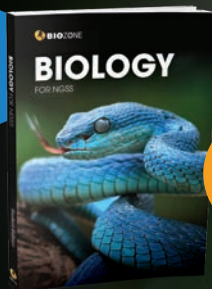
See page 2 for further details.

## Introducing our Latest Titles



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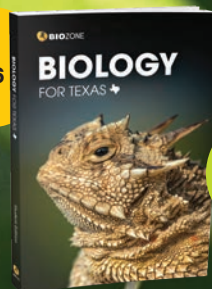
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**BIOZONE's** full Terms and Conditions be viewed at: [biozone.com/us/terms-and-conditions](http://biozone.com/us/terms-and-conditions)

**Pictured: Praying mantis**  
Photo by David Clode from Unsplash





## Professional Development Available

Want to know more? Contact our Professional Development Team to find out more about using the Teacher Toolkit to plan lessons, enhance delivery, engage students, and deliver assessments.

**Contact your local sales representative to find out more or book a Professional Development session.**

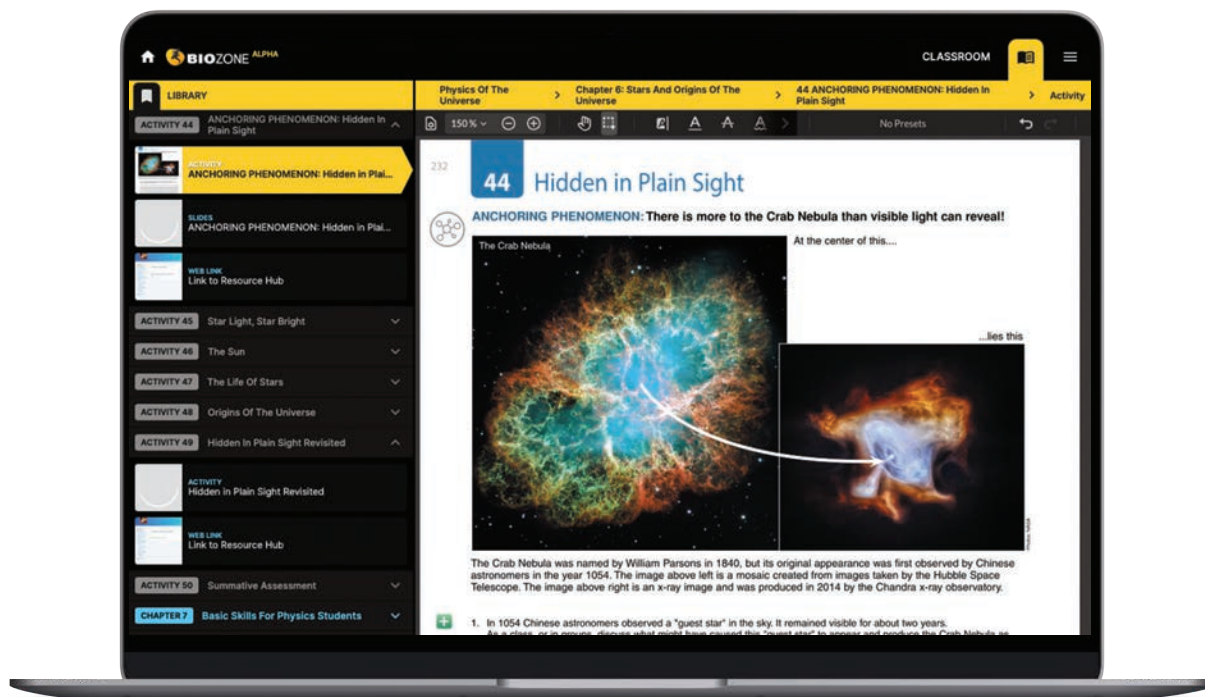
[www.BIOZONE.com/us/contact-us](http://www.BIOZONE.com/us/contact-us)

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## Student Access

Digital replica that displays an interactive version of the book:

- **Digital replica:** students can view the book
- Students can enter answers online and submit them to their teacher.
- Digital resources are available
  - 3D models**
  - Presentation Slides**
  - Curated videos**
  - Weblinks**

## Teacher ONLY Access

All the functions the student has plus:

- Teacher has access to **online model answers via display buttons.**
- Teacher can assign activities as time-sensitive coursework to be submitted by students.
- Teacher can view, comment and grade student responses to questions.

**Library Toggle:**

Click this button to show or hide book pages and resources.

**Activity Title:**

Activities are numbered and displayed in grey.

**Activity Pages:**

May be a single page or several pages.

**Presentation Slides:**

Slides relevant to the activity are shown in context.

**Curated Videos:**

Mostly hosted on YouTube, these play within the platform.

**3D Models:**

BIOZONE's collection of 3D models are often annotated and provide a great lesson enrichment opportunity.

**Chapter Title:**

All chapters are displayed in blue.

**Curated Web-links:**

These will display in a new TAB in your browser as some have special display requirements.

**BIOZONE ALPHA**

**LIBRARY** Physical Sciences for NGSS > Chapter 2: Ionic Bonding

**ACTIVITY 27** Ionic Bonding

**ACTIVITY 28** Covalent Bonding

**ACTIVITY 29** Molecular Shape

**ACTIVITY 30** Intra- And Intermolecular Forces

**ACTIVITY 31** Comparing Substances

**ACTIVITY 32** Review Your Understanding

**ACTIVITY 33** Summing Up

**CHAPTER 3** Chemical Reactions

**CHAPTER 4** Nuclear Processes

**CHAPTER 5** Forces And Motion

**CHAPTER 6** Types of Interactions

**27 Ionic Bonding**

**Key Question:** How do ions form and how do they behave?

In the previous activity sodium and chlorine were shown reacting during a reaction between sodium and chlorine. In the diagram below, we see that sodium has a single electron in its outer shell.

Earlier, at the end of Activity 22, you were asked to predict the products of a reaction between sodium and chlorine. Here we can ask the question, "is it easier (does it take less energy) for sodium to lose one electron and thus lose a shell or to lose seven electrons and thus lose a shell entirely?"

A similar question must be asked of sodium. Is it easier for sodium to lose one electron to fill the valence shell?

Of course it is easier for chlorine to gain one electron and thus form a chloride ion. Ions are atoms that have gained or lost electrons and thus have a net charge.

During a sodium/chlorine reaction an electron is exchanged.

**Sodium**

1. (a) Write the electron configuration of the sodium ion:

(b) Write the electron configuration of the chloride ion:

2. (a) What charge does the sodium ion have?

(b) What charge does the chloride ion have?

**Reveal Answers:**

**Teacher Only access** - Use the (+) and (-) buttons to display or hide the suggested answers. HINT: use this feature with an interactive whiteboard to review a lesson.

**Student Responses:**

Students double-click on one of the blue fields to type in their responses to questions.



## 20 Titles Available on BIOZONE WORLD



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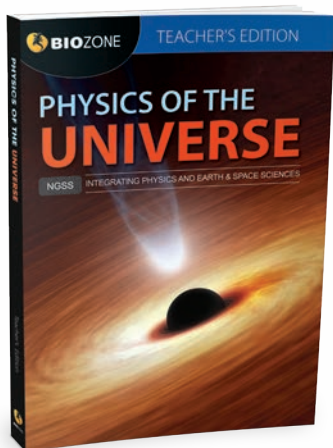
[biozone.com/us/bw-trial](https://biozone.com/us/bw-trial)





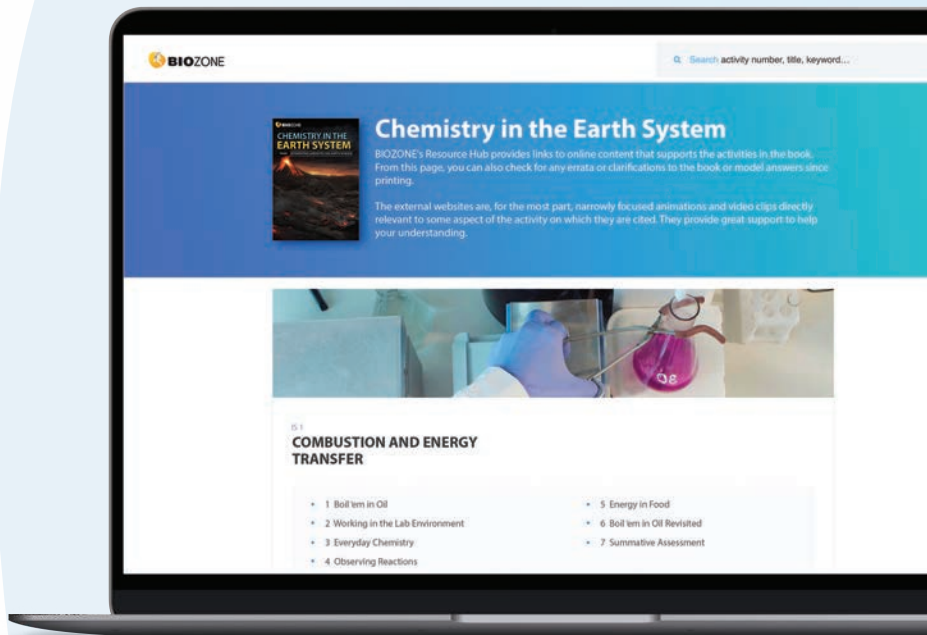
# Teacher Support

## Teacher's Edition (Print)



Our Teacher's Editions contain a Classroom Guide and have suggested answers in place for each activity. Teacher editions are also available as a digital version via our online platform: BIOZONE WORLD

## Resource Hub



### Multi-Year Contracts:

Additional resources are available for schools/districts that contract for multi-year adoption:

**Question Library:** provides all of the questions from the Student Edition worktext in a format that can be ingested into a range of LMS or other digital delivery tools.

*Available for all titles  
RTF or QTI*

**Testbank:** content is a set of curated questions designed to test student understanding. Questions can be ingested into test generator software (e.g. Illuminate, ExamView), reformatted into quizzes (e.g. Quizlet or Kahoot), or ingested into an LMS (Google forms).

*Available for all NGSS titles and Biology for Texas.  
RTF or QTI*

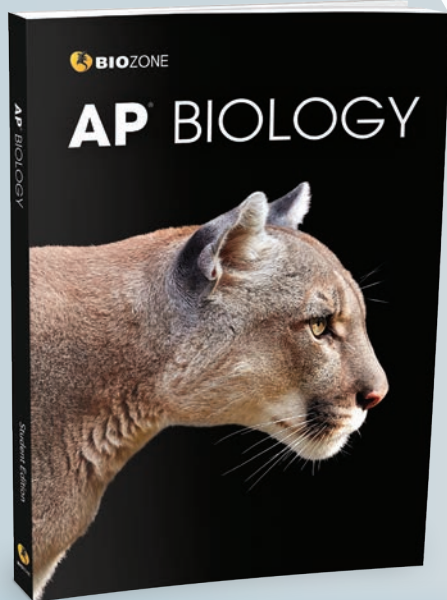
Our Resource Hub is a free resource, available to students and teachers. It offers a curated collection of Open Educational Resources (OER) specifically chosen to support the content of the worktext.

Resources include:

- Videos
- 3D models
- Weblinks
- + many others

The resources integrate seamlessly into your teacher workflow, allowing for meaningful delivery within an integrated classroom.

NOTE: All resources listed here for print book users are also provided within BIOZONE WORLD for digital users.



## BIOZONE WORLD Digital Formats



Student Access



Teacher's Access  
(hide and show answers)

## Print User Support Material



Teacher's Edition (Print)



Classroom Guide (Download)



Pacing Guide (Download)



Resource Hub

- 290+ Curated Videos
- 150+ 3D Models
- 190+ Weblinks

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Teacher support materials are for teacher purchase only and will not be sold to students. Teacher's Editions can only be purchased when ordering a class set of 20+ student editions of the same title.

# AP® Biology Student Edition

BIOZONE'S third edition of AP Biology is now in full color and one comprehensive volume. It has been designed and written to meet the requirements of the 2020 AP Biology CED. This title expertly balances breadth of content with depth of understanding, employing a wide variety of activities to develop the student's skills in key science practices. In keeping with the approach of the new CED, AP® Biology deemphasizes the traditional approach of content coverage to focus on inquiry, critical thinking, and enduring understanding of key concepts. Clear presentation, a highly visual approach, and integration of relevant and engaging illustrative examples readies students for college level courses, developing the essential inquiry and reasoning skills they will need as 21st century scientists.

**LEXILE Score: 1106-1296 grade 9-12**

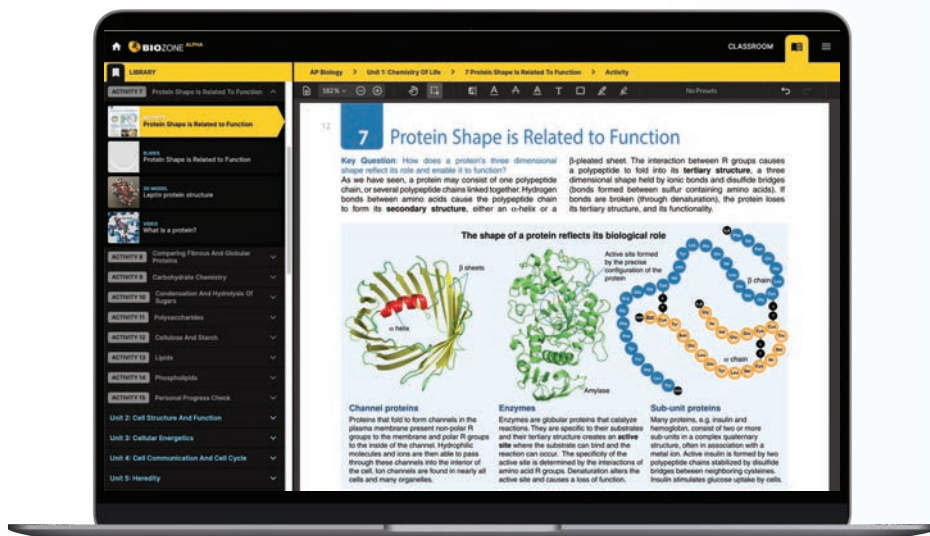
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# BIOZONE WORLD - See this title in our digital platform



BIOZONE WORLD revolutionizes biology education with an immersive learning experience. Explore the AP Biology worktext featuring 3D models, slides, weblinks, and videos. Engage with captivating visuals, interactive activities, and real-world case studies and examples, empowering you to unlock the wonders of biology with your students. It not only provides seamless digital access to content and our OER support resources, it allows teachers to grade student work. Ignite your students' passion for science with BIOZONE WORLD.

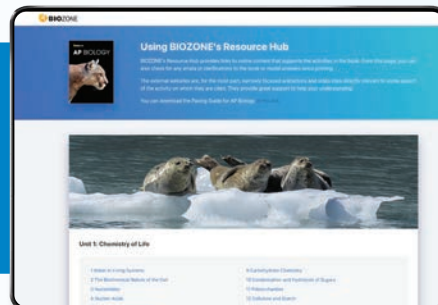


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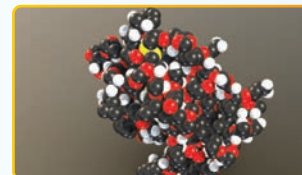
## RESOURCE HUB

Additional enrichment for both striving and gifted/talented students. The hub provides links to additional online resources such as our collection of 3D models and spreadsheets, you also gain access to our library of curated OER resources.

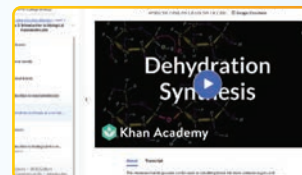
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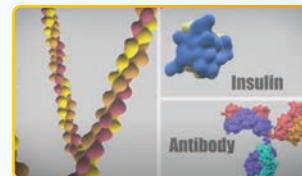
150+ 3D Models



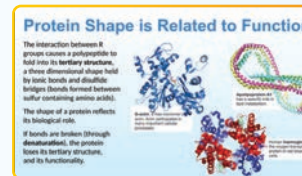
190+ Weblinks



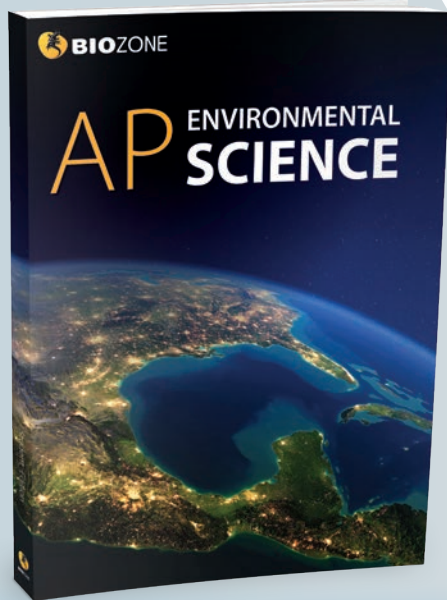
290+ Curated Videos



1000+ Presentation Slides



Questions? Email: [sales@biozone.com](mailto:sales@biozone.com)



## BIOZONE WORLD Digital Formats



Student Access



Teacher's Access  
(hide and show answers)

## Print User Support Material



Teacher's Edition (Print)



Classroom Guide (Download)



Pacing Guide (Download)



Resource Hub

- 140+ Curated Videos
- 80+ 3D Models
- 150+ Weblinks

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# AP<sup>®</sup> Environmental Science Student Edition

BIOZONE's AP Environmental Science is a dedicated title to address the 2020 AP Environmental Science CED. This title takes a global perspective, examining the very latest issues concerning the environment while still providing the foundation for students to understand and engage with the science involved. Current concerns in the global community, including wildfires, COVID-19, glacial retreat, and loss of biodiversity are examined, with the emphasis being on the interconnectedness of Earth's systems and the importance of ecosystem services. Using current case studies, student investigations, and data analysis. BIOZONE's AP Environmental Science emphasizes the application of knowledge to understanding the Earth's systems and identifying and analyzing environmental problems and their solutions.

**LEXILE Score: 1084-1248 grade 9-12**

**Preview every page  
and find out more**





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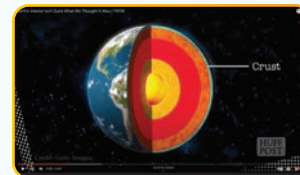
80+ 3D Models



150+ Weblinks



140+ Curated Videos



1180+ Presentation Slides



BIOZONE WORLD revolutionizes science education with an immersive learning experience. Explore the AP Environmental Science worktext featuring 3D models, slides, weblinks, and videos. Engage with captivating visuals, interactive activities, and real-world case studies and examples, empowering you to unlock the wonders of environmental science with your students. It not only provides seamless digital access to content and our OER support resources, it allows teachers to grade student work. Ignite your students' passion for science with BIOZONE WORLD.



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## RESOURCE HUB

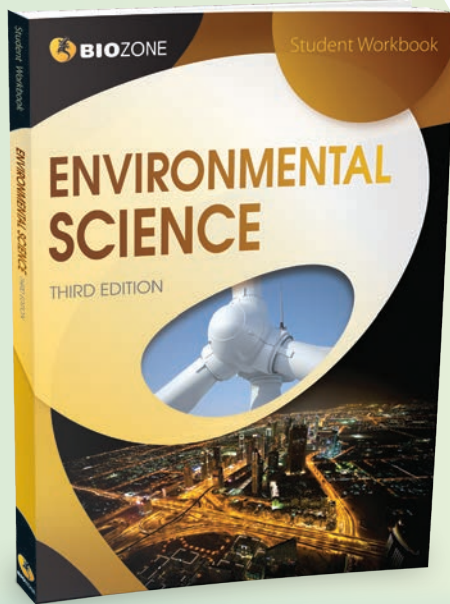
Additional enrichment for both striving and gifted/talented students. The hub provides links to additional online resources such as our collection of 3D models and spreadsheets, you also gain access to our library of curated OER resources.

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## Environmental Science Student Workbook

BIOZONE's Environmental Science Student Workbook introduces students to the Earth's physical and biological systems, and examines the interactions of humans with their environment. The comprehensive coverage of this text makes it highly suitable for any high school environmental science course.

Content developments include updates on the Gulf of Mexico oil spill and the Fukushima Daiichi nuclear disaster, and in-depth coverage of energy extraction issues, pollution, and the wider environmental implications of urban development.

*Preview every page  
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### BIOZONE WORLD Digital Formats



Student Access



Teacher's Access  
(hide and show answers)

### Extra Support Material



Resource Hub

- Curated Videos
- Weblinks



Model Answers Booklet

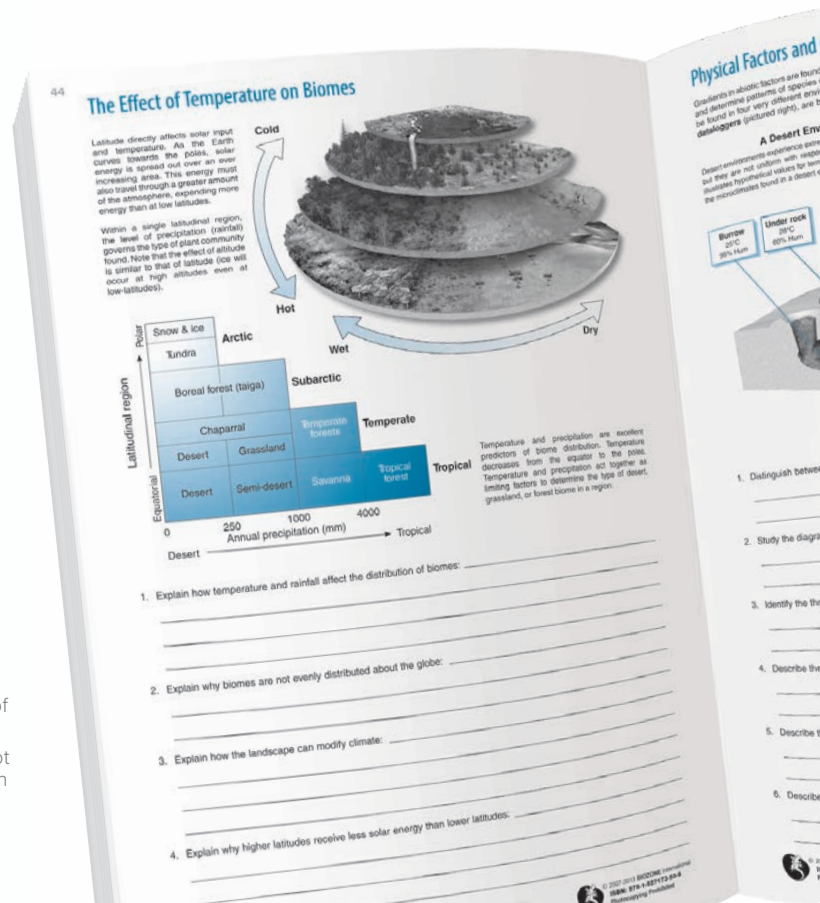


**New Edition coming 2024**

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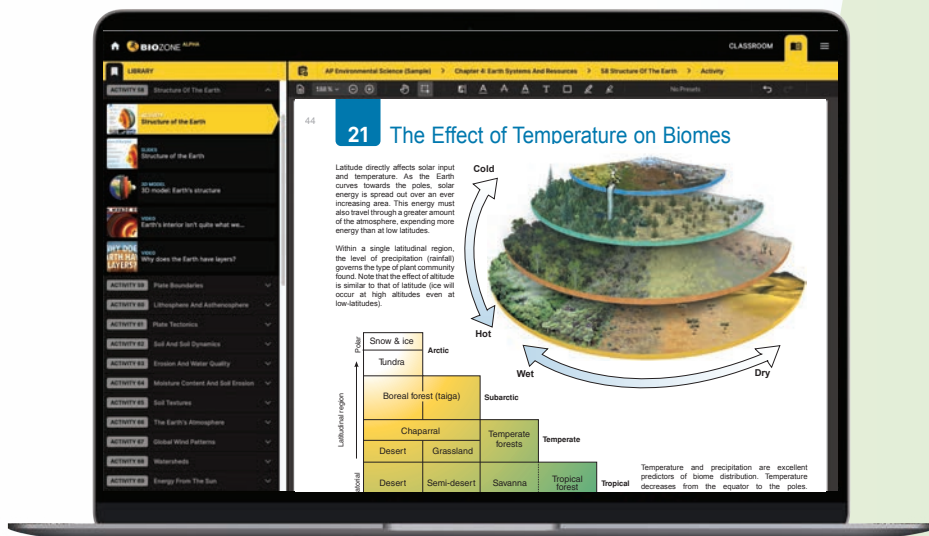
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Find out more: [BIOZONE.com/us/product/ENS](https://www.biozone.com/us/product/ENS)





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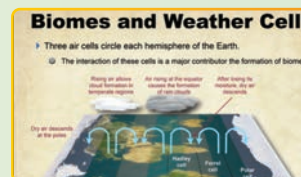
140+ Weblinks



240+ Curated Videos



750+ Presentation Slides



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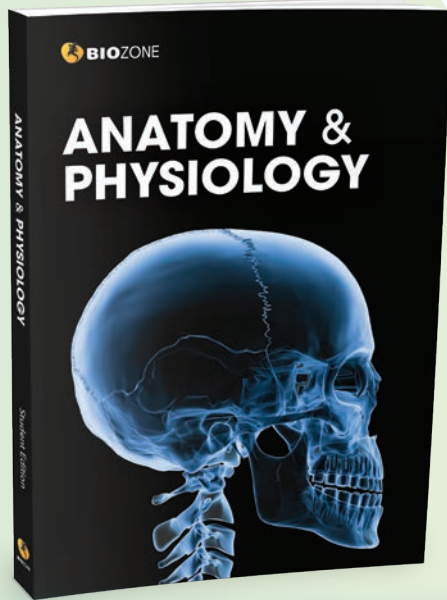
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## Anatomy & Physiology Student Edition (3rd Edition)

This comprehensive and highly visual book provides a sound introduction to the anatomy of the human body and its important physiological functions. It combines the very best features of a light textbook with the utility of a workbook. Each chapter introduces a system and maps its interaction with the rest of the body using annotated introductory figures, reinforcing the interrelatedness of the body systems. Four themes: disease, medicine and technology, aging, and exercise provide lenses through which students explore the body systems within a modern context. The book concludes with a set of structured research projects to guide students through an in-depth exploration of a topic that interests them.

*Preview every page  
and find out more*



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### Extra Support Material



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Resource Hub

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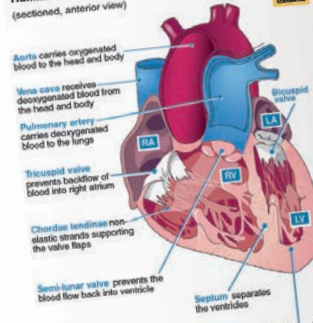
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Find out more: [BIOZONE.com/us/product/ANP3](https://www.biozone.com/us/product/ANP3)

### 106 Structure of the Mammalian Heart

**Key Idea:** Humans have a four-chambered heart, divided into left and right halves, acting as a double pump. The heart is the center of the human cardiovascular system. It is a hollow, muscular organ made up of four chambers (two atria and two ventricles) that alternately fill and empty with blood, acting as a double pump. The left side (systemic circuit) pumps blood to the body tissues and the right side (pulmonary circuit) pumps blood to the lungs. The heart lies between the lungs, to the left of the midline, and is surrounded by a double-layered pericardium of connective tissue, which prevents over-distension of the heart and anchors it within the central compartment of the thoracic cavity.

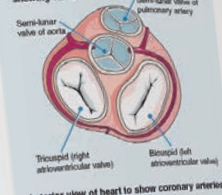
**Human heart structure (sectioned, anterior view)**



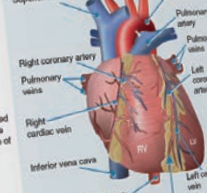
The heart is not a symmetrical organ. Although the quantity of blood pumped by each side is the same, the walls of the left ventricle are thicker and more muscular than those of the right ventricle. This difference affects the shape of the ventricular cavities, so the right ventricle is twisted over to the left.

- Right atrium: receives deoxygenated blood via the anterior and posterior vena cava
- Right ventricle: pumps deoxygenated blood to the lungs via the pulmonary artery
- Left atrium: receives blood returning to the heart from the lungs via the pulmonary veins
- Left ventricle: pumps oxygenated blood to the head and body via the aorta

**Top view of a heart in section, showing valves**



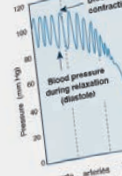
**Anterior view of heart to show coronary arteries**



Coronary arteries: the high oxygen demand of the heart muscle is met by a dense capillary network. Coronary arteries arise from the aorta and spread over the surface of the heart, supplying the cardiac muscle with oxygenated blood. Deoxygenated blood is collected by cardiac veins and returned to the right atrium via a large coronary sinus.

1. In the schematic diagram of the heart below, label the four chambers and the main vessels entering and leaving them.

**Pressure changes and the heart**  
The heart is not a symmetrical organ. The right and left sides are not symmetrical. The right side is larger and more muscular than the left side. The right side is also more asymmetrical (body) circulations, not symmetrical. The graph below shows changes in pressure in the systemic and pulmonary circuits. The graph shows that pressure in the pulmonary circuit must operate at a lower pressure than the systemic circuit. Pressure in the pulmonary circuit must operate at a lower pressure than the systemic circuit. Pressure in the pulmonary circuit must operate at a lower pressure than the systemic circuit.



- Explain the purpose of the heart.
- The heart is full of blood. (a) (b)
- Predict the effect of a change in the heart.
- Identify the vessels of the heart.
- Explain why the heart is a double pump.
- Explain why the heart is a double pump.





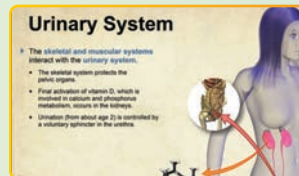
150+ Weblinks



## 140+ Curated Videos



## Presentation Slides

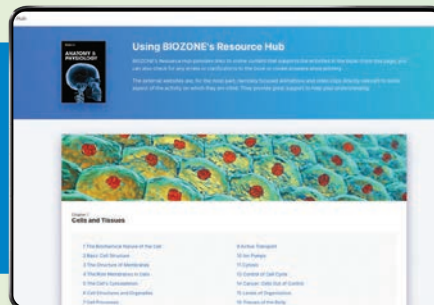


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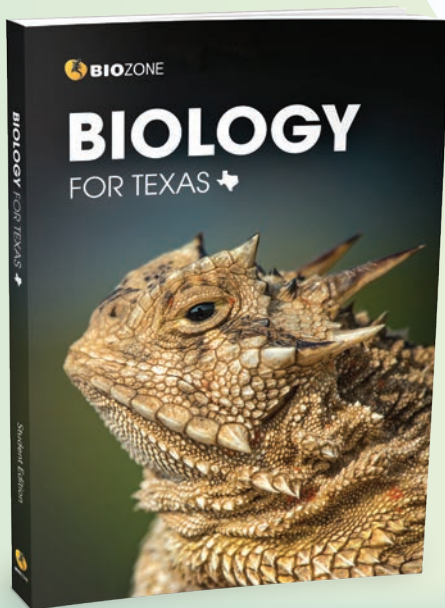
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## BIOZONE WORLD Digital Formats



Student Access



Teacher's Access  
(hide and show answers)

## Print User Support Material



Teacher's Edition (Print)



Classroom Guide (Download)



Pacing Guide (Download)



Implementation Guide (Download)



Resource Hub

- 440+ Curated Videos
- 180+ 3D Models
- 310+ Weblinks

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Find out more: [BIOZONE.com/us/product/TXB1](https://BIOZONE.com/us/product/TXB1)

# Biology for Texas Student Edition

Biology for Texas has been written for the Texas Essential Knowledge and Skills (TEKS) for Science (High School Biology) specified in Proclamation 2024. Biology for Texas is a well-rounded resource, combining the program's required elements with BIOZONE's trademark rigorous and highly visual approach.

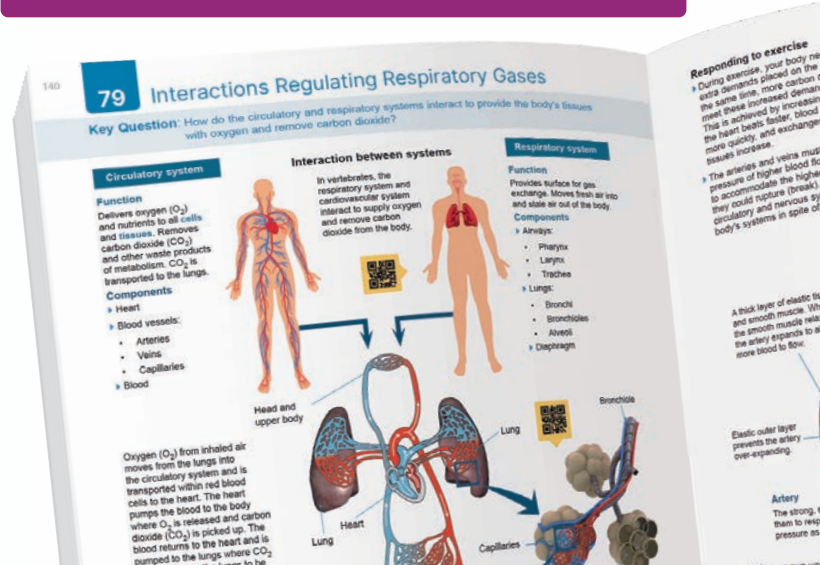
Our unique, interactive worktext approach encourages direct interaction with the content, allowing students to record their answers within the context of the stimulus material and form a "record of work" for quick and easy revision.

A tab system identifies where the scientific and engineering practices TEKS and Science concepts TEKS are integrated. English Language Proficiency Standards (ELPS) are integrated throughout in a way that requires students to think critically, understand and learn new concepts, process complex academic material, and interact and communicate in English within the science classroom.

The nature of science, scientific inquiry and science and ethical components of the program are integral within the activities.

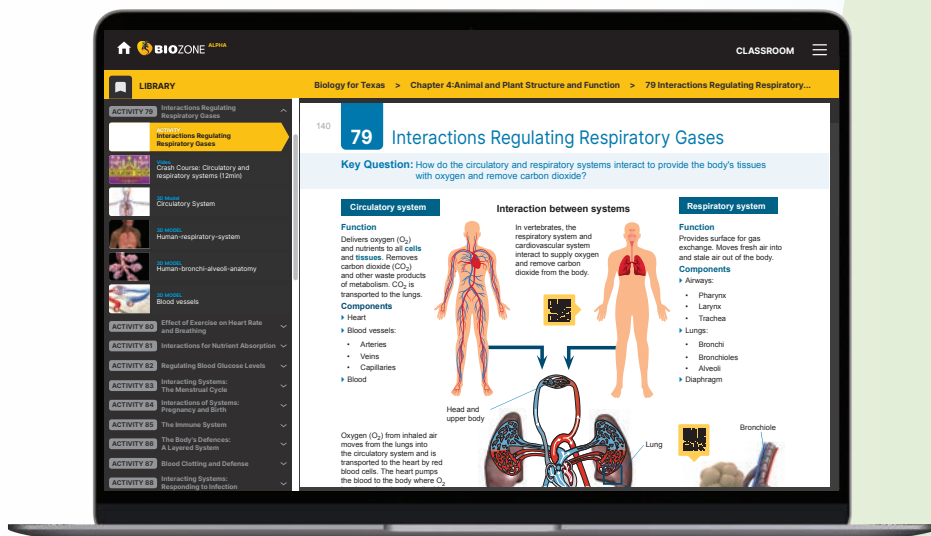
**LEXILE Score: 1074-1264 grade 9-10**

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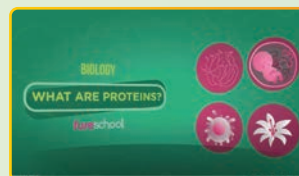
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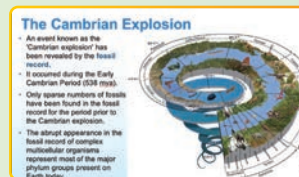
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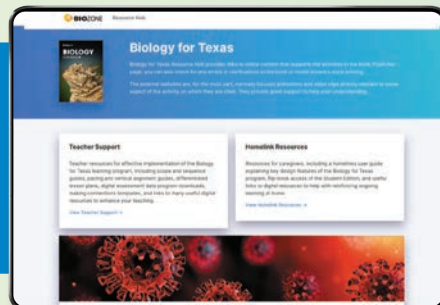


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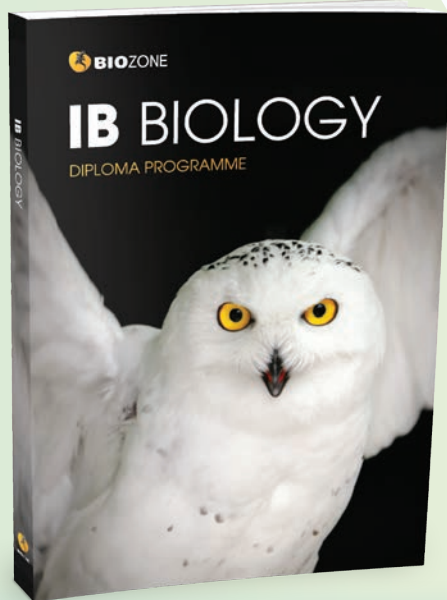
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*This product has been developed independently of the International Baccalaureate Organization. It is not endorsed.*

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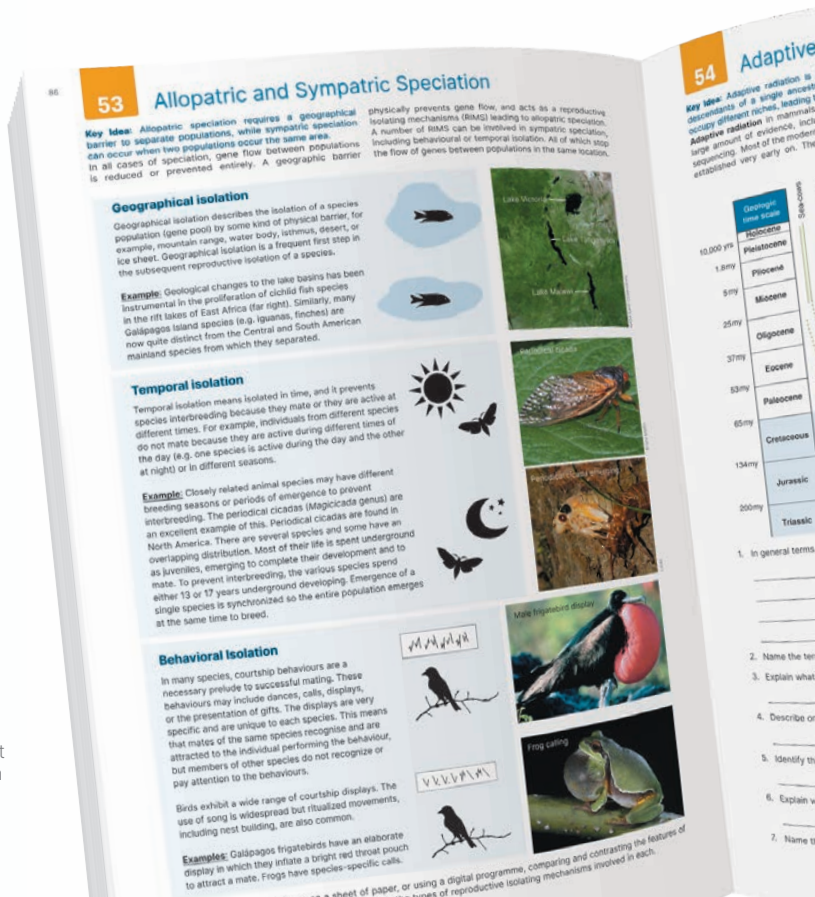
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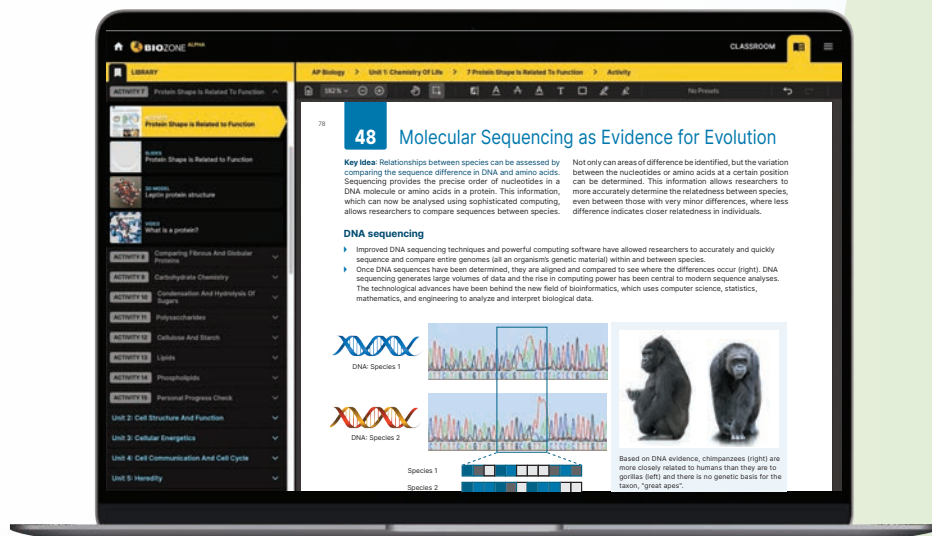
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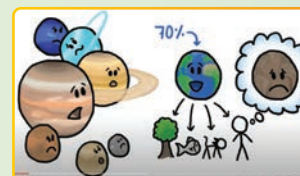
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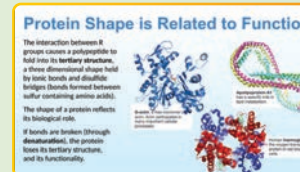
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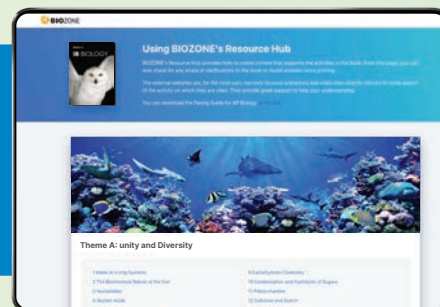


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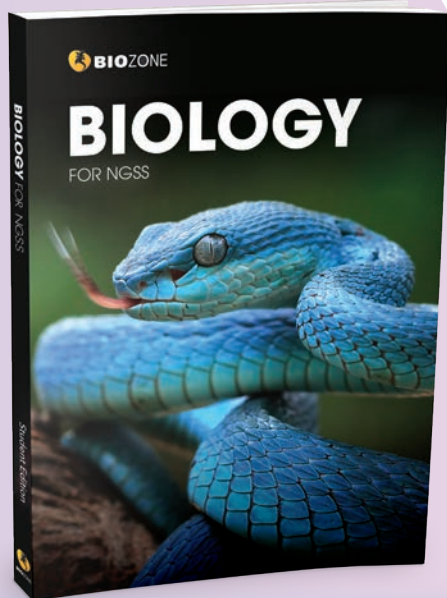
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## Biology for NGSS Student Edition

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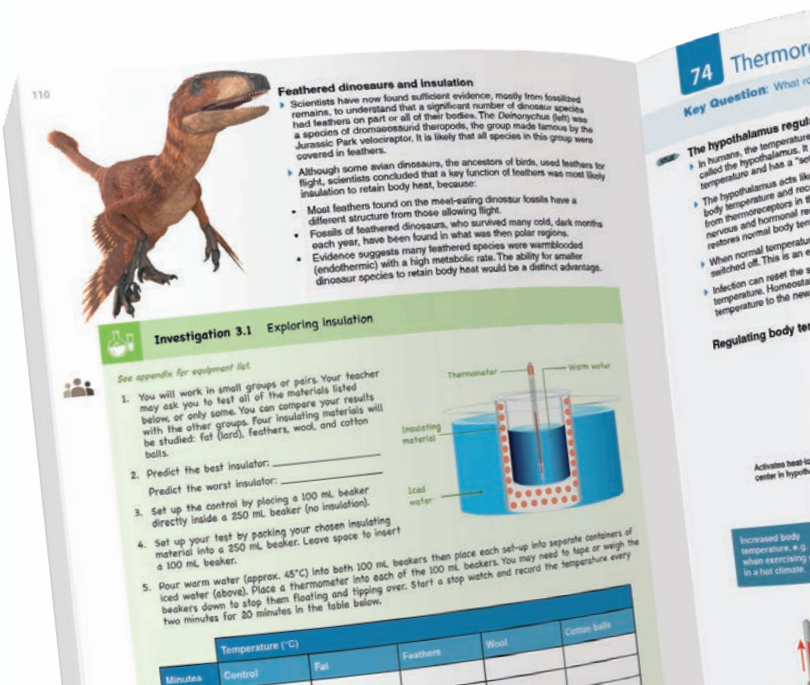
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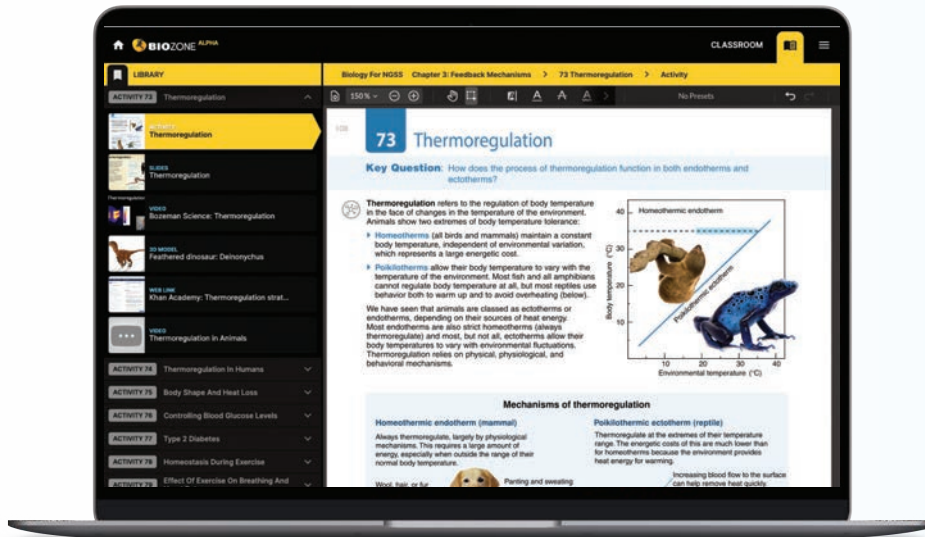
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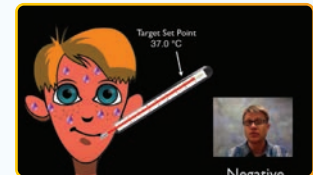
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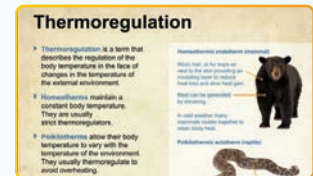
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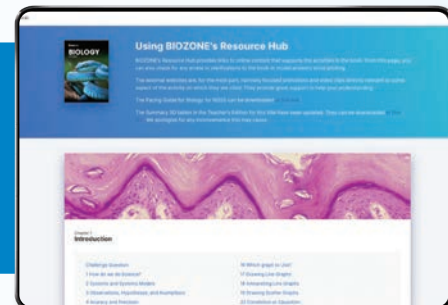
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**LEXILE Score: 1046 - 1230 (Grade 9)**

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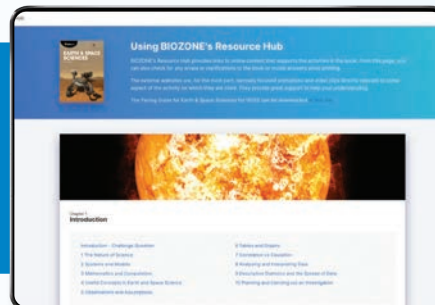
### 300+ Curated Videos



### Presentation Slides

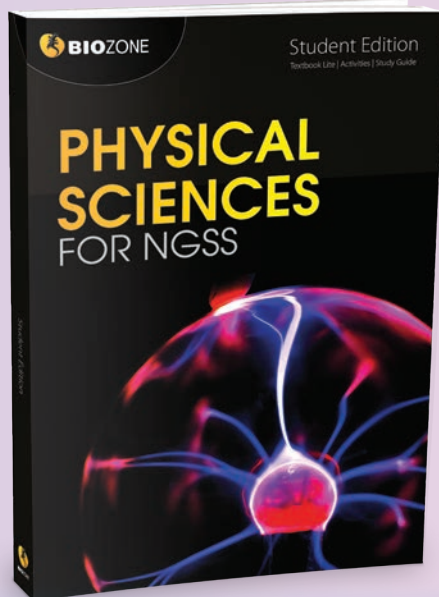
#### Studying the Universe

- People have studied the universe for millennia.
- To begin with, people studied the sky visually, using only their eyes and noting how the stars, Moon, and Sun moved across the sky.
- Accurate study and mapping of the stars and planets helped people keep track of the seasons and important (usually religious) events.
- With the beginning of the Renaissance in Western Europe, studying stars became more academic and accurate as



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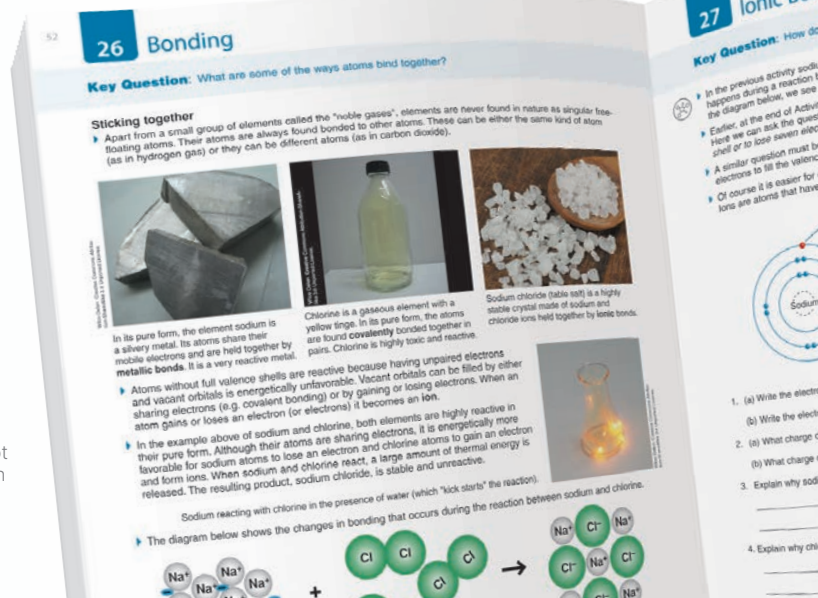
# Physical Sciences for NGSS Student Edition

Physical Sciences for NGSS has been specifically written to meet the requirements of the Next Generation Science Standards (NGSS) for High School Physical Sciences (HS-PS). It encompasses all three dimensions of the standards (science and engineering practices, crosscutting concepts, and disciplinary core ideas), addressing the program content through a wide range of engaging student-focused activities and investigations.

Through completion of these activities, students build a sound understanding of science and engineering practices, recognize and understand the concepts that link all domains of science, and build the knowledge base required to integrate the three dimensions of the standards to meet the program's performance expectations.

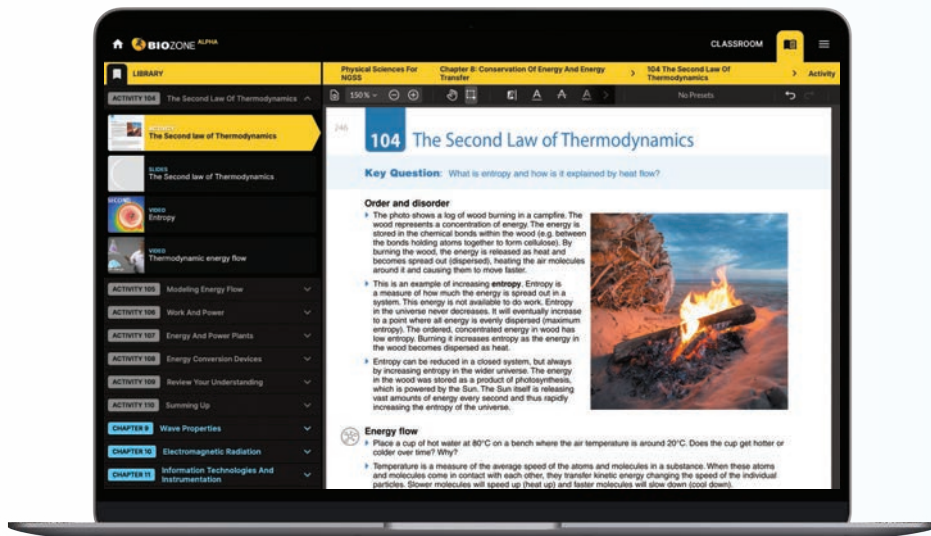
**LEXILE Score: 977 grade 7**

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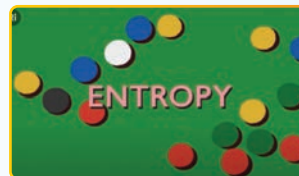
30+ 3D Models



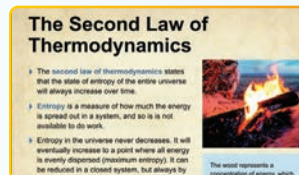
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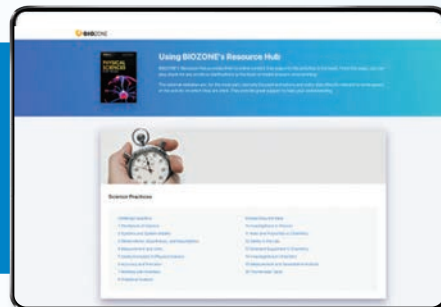


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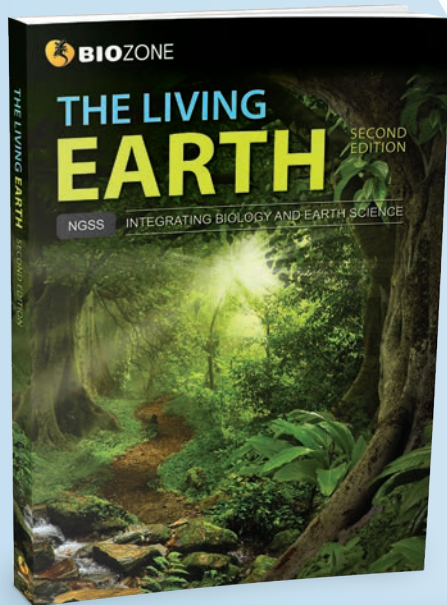
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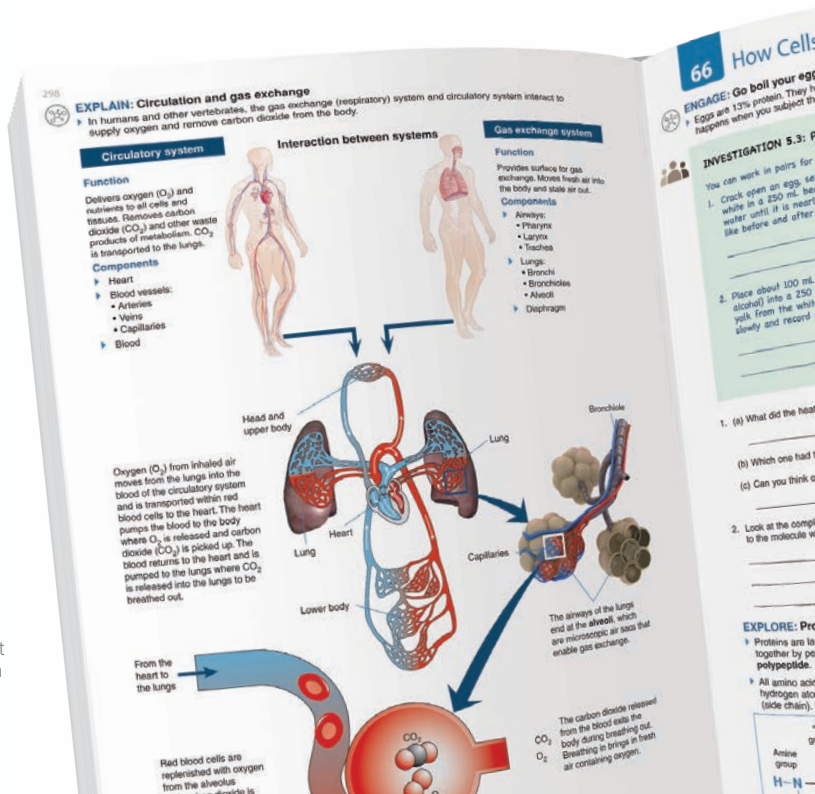
# The Living Earth Student Edition

The Living Earth has been designed and written following the High school Three-Course Model for California. It will also suit NGSS-aligned states integrating Earth Science with Biology. This phenomenon-based title takes a three-dimensional approach and emphasizes student inquiry to provide an engaging, relevant, and rigorous program of instruction.

BIOZONE's Standard NGSS Series, the Integrated Series offers a learning experience based on the 5 Es and anchored in student relevant phenomena and problems.

**LEXILE Score: 1050 - 1240 grade 8-9**

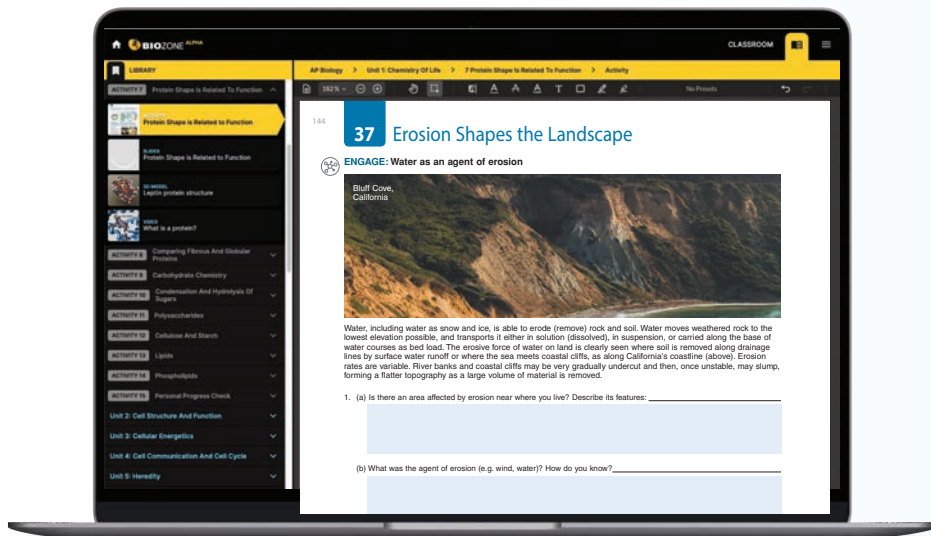
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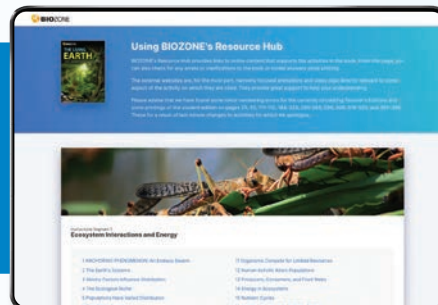


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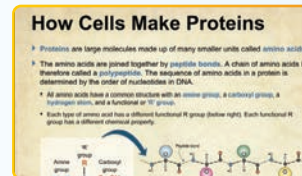
### 140+ Weblinks



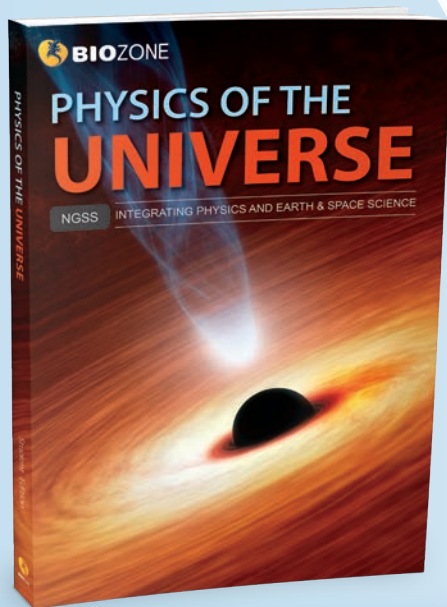
### 170+ Curated Videos



### 490+ Presentation Slides



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## Physics of the Universe Student Edition

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BIOZONE's Standard NGSS Series, the Integrated Series offers a learning experience based on the 5 Es and anchored in student relevant phenomena and problems.

**LEXILE Score: 1000 grade 7-8**

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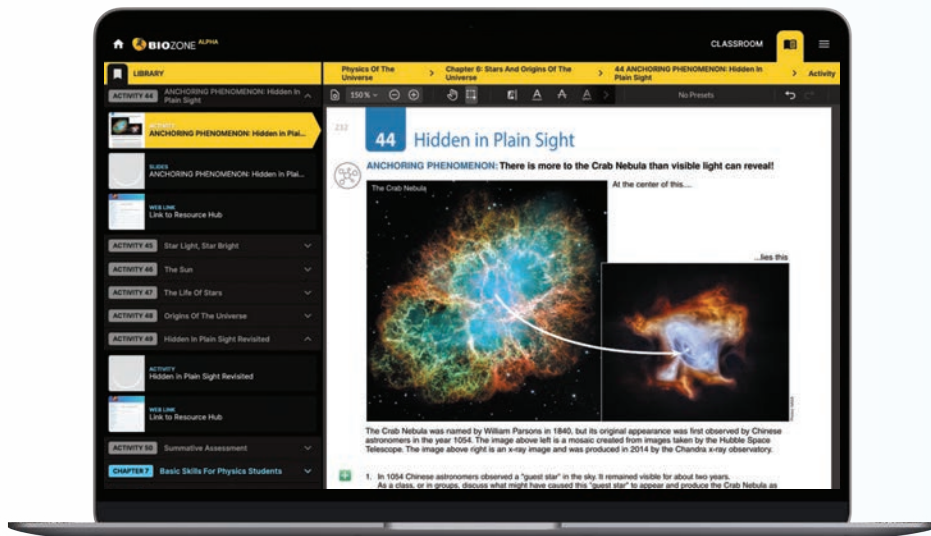
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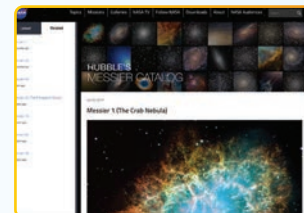




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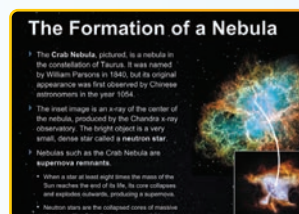
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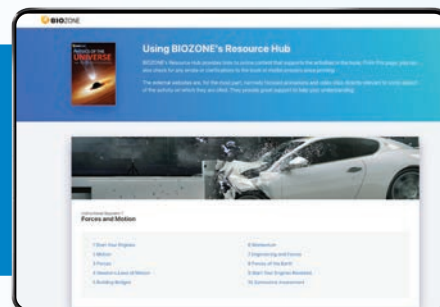


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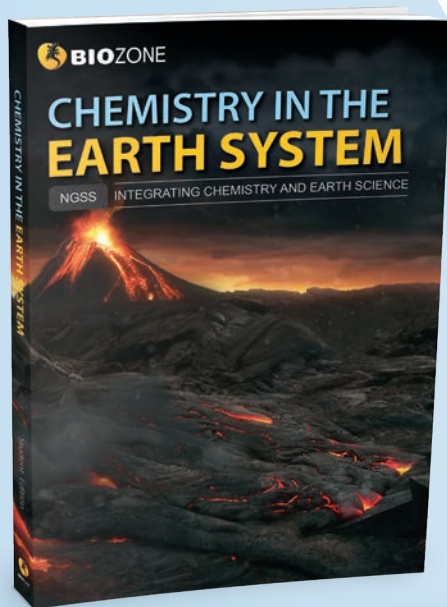
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# Chemistry in the Earth System Student Edition

Chemistry in the Earth System has been designed and written following the high school Three-Course Model for California. It will also suit NGSS-aligned states integrating Earth Science with Chemistry. This phenomena-based title takes a three-dimensional approach to provide an engaging, relevant, and rigorous program of instruction.




BIOZONE's Standard NGSS Series, the Integrated Series offers a learning experience based on the 5 Es and anchored in student relevant phenomena and problems.

**LEXILE Score: 956 grade 7**

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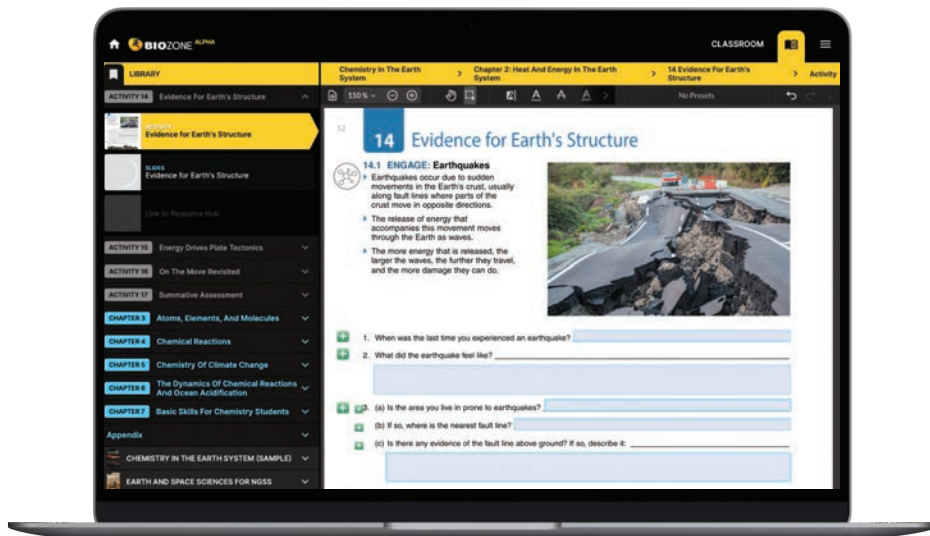
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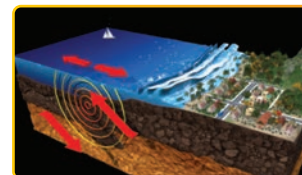
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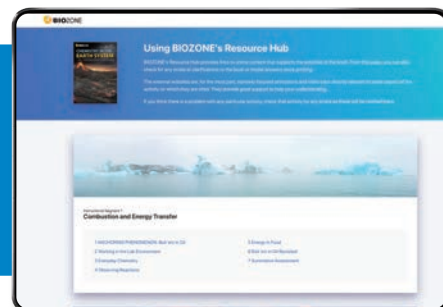
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### 90+ Curated Videos



### 460+ Presentation Slides



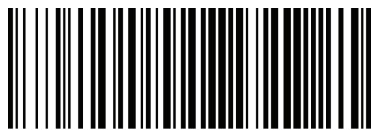
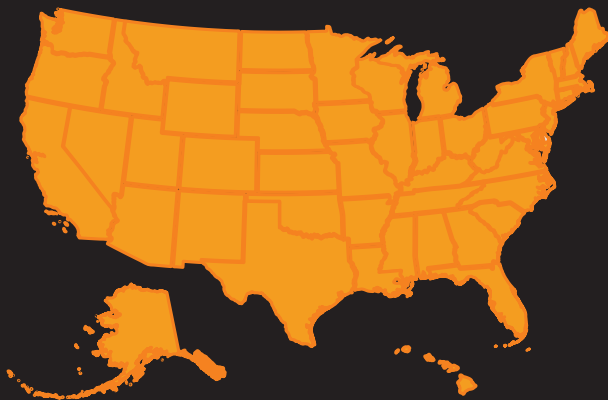
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