



**2025**  
CATALOG



**SCIENCE  
RESOURCES**

GRADES 9-12



# 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 - our NEW Digital Platform

We are excited to announce the launch of BIOZONE WORLD ... our stunning new science digital platform that brings together all of our titles and digital resources for easy access.

See page 2 for details.

## NEW EDITION: Environmental Science

This fourth edition of BIOZONE's Environmental Science combines the very best features of a light textbook with the utility of a workbook. Updated with the very latest environmental data, its full color, highly-visual content brings the subject to life in an engaging and thought-provoking manner.

See page 12 for details.



## NEW EDITION: IB Biology

Our brand NEW edition of IB BIOLOGY is a significant upgrade to our previous edition. Now in full-color and significantly expanded to become full hybrid textbook-workbook (worktext), it is written for the latest IB Biology Diploma program (first assessed in 2025). This resource integrates BOTH standard level (SL) and higher level (HL) material, ensuring seamless delivery of the IB program with no content gaps.

See page 18 for details.

**Cover Image:**

Black Rhinoceros (*Diceros bicornis*)

Photo by JohanSwanepoel

Adobe Stock

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# BIOZONE WORLD - Our new science digital platform

**BIOZONE WORLD** is revolutionizing the way teachers deliver high school science courses by consolidating all of our resources into one powerful platform.

Incorporating digital replicas of our highly acclaimed print titles, together with our rich collection of *presentation slides*, *3D models*, curated OER *videos* and *websites*, it provides a powerful and immersive learning experience.

Students can write their answers to questions online – forming a 'record of work'. They can submit their responses for teacher review (and grading if desired). Teachers can display the suggested model answers at the click of a button – ideal for a quick review at the end of a lesson (especially when using a data projector or interactive whiteboard).

Educators can easily plan lessons, assign work, and grade student responses.



Students can explore relevant interactive 3D models

Rostering Integrations:

**Clever**  **ClassLink**

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



## Student Access

Digital replica that displays an interactive version of the book:

- **Digital replica:** students can view the book
- **Real-time translation of highlighted English text into 25+ languages.**
- 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 **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 (if desired).

**Request a teacher preview**  
**FREE for 30 days:**  
[www.BIOZONE.com/us/bw-trial](http://www.BIOZONE.com/us/bw-trial)



La vena cava recibe sangre desoxigenada de la cabeza y el cuerpo

ES translated by Google

- Access to BIOZONE WORLD is made via the purchase of institutional (school) licences to specific book titles.
- A minimum of 20 Student licences must be purchased. Teacher access is FREE.
- Customers can stipulate the start date for the 12-month licence (NOTE: IB Biology licence has a 24-month term).
- Annual (12 month) licences can be purchased:
  - » on their own (without print books) for the same price as the print books, or
  - » bundled with the corresponding print title - when a discount of 50% applies to the licences.

**Library Toggle:**

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

**QR Codes:**

Some of our newer books feature QR codes. A student can use their mobile phone or tablet to scan this code and link to a 3D model.

**Chapter Title:**

All chapters are displayed in blue.

**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 Web-links:**

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

**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.

**LIBRARY**

Environmental Science > Chapter 5: Land and Water > 102 Soil Degradation

ACTIVITY 102 Soil Degradation

ACTIVITY  
Soil Degradation

SLIDES  
Soil Degradation

Weblink  
Soil erosion 101

Videos  
Soil basics: soil moisture

ACTIVITY 103 Reducing Soil Erosion

ACTIVITY 104 Forestry

ACTIVITY 105 Managing Rangelands

ACTIVITY 106 Reserve Lands

ACTIVITY 107 City Planning

ACTIVITY 108 Transportation

ACTIVITY 109 Mining and Minerals

ACTIVITY 110 Globalization

ACTIVITY 111 Global Water Resources

ACTIVITY 112 Water and People

ACTIVITY 113 Water and Industry

ACTIVITY 114 Ecological Impacts of Fishing

ACTIVITY 115 Fisheries Management

ACTIVITY 116 Did You Get It?

CHAPTER 6 Energy

CHAPTER 7 Pollution

150%

## 102 Soil Degradation

**Key Idea:** Soils can be severely damaged by poor agricultural practices and become unusable.

Soil is a fragile resource and can be easily damaged by inappropriate farming practices. Some soils, such as those under the Amazon rainforest, are very vulnerable to human interference. These soils are very thin and nutrient poor; after only a few years of farming they may be abandoned due to poor production. Overgrazing and deforestation may cause desertification. Chemically intensive agricultural practices

call for ever-increasing yields, but produce structure. Healthy of organisms, including humus. Repeated and eventually res material, and unpr

**Soil erosion:** The movement of soil components, including top soil, by wind and water have been greatly increased by human activities that remove vegetation.

**Desertification:** Overuse of agricultural lands has caused their global deterioration. About 10% of the world's land has been desertified (its top soil has been lost). Another 25% is at risk.

**Soil exhaustion:** Agricultural systems disrupt natural mineral cycling. The soil may become mineral deficient and lose fertility.

**Pesticides:** Toxic chemicals are used to control crop pests. These can kill beneficial soil organisms and accumulate higher up in the food chain.

Salt pan

Rising water table through irrigation

**Water holding:** As the soil degrades, its ability to hold water is decreased, causing further drying of the land.

**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



1. Use the link to request a **FREE 30-day Teacher Preview** of all 20 titles
2. Talk to our team about a **FREE 90-day Classroom Trial**



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

## BIOZONE WORLD Technical Support

Need some help? Find a quick solution via our **knowledge base**, or **short videos**. You can also download our **Student User Guide**, or for additional help you can **contact our dedicated support team**.

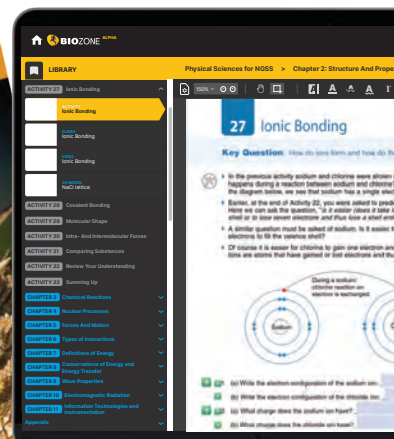
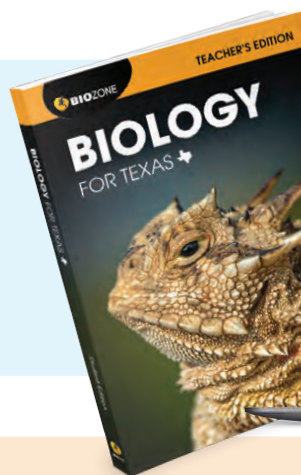
Head to: [biozone.com/us/biozone-world-support](https://biozone.com/us/biozone-world-support)

# Teacher Support

Discover our wide range of teacher resources designed to support, engage, and elevate your teaching experience. From comprehensive lesson plans and classroom guides to customizable test banks and resource hubs, our resources are crafted to enhance student learning.

## Teacher's Edition

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

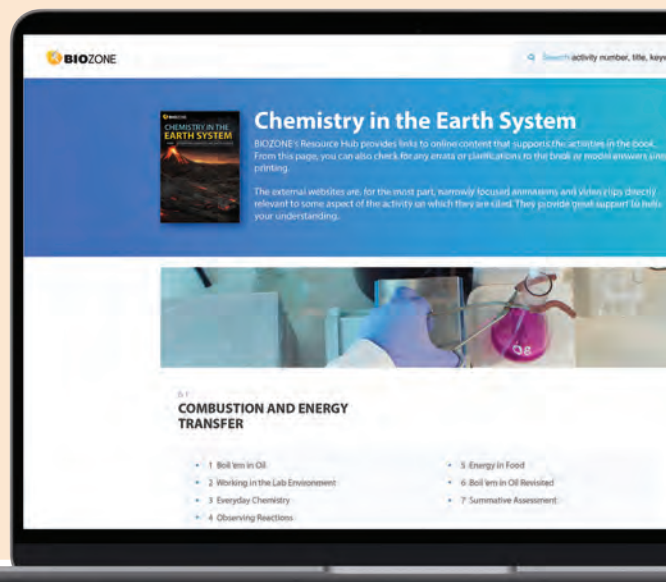
Our Resource Hub is a free resource, available to students and teachers. It offers a curated collection of Open Educational Resources (OER) specifically chosen to support the content of the worktext.

Resources include:

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

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

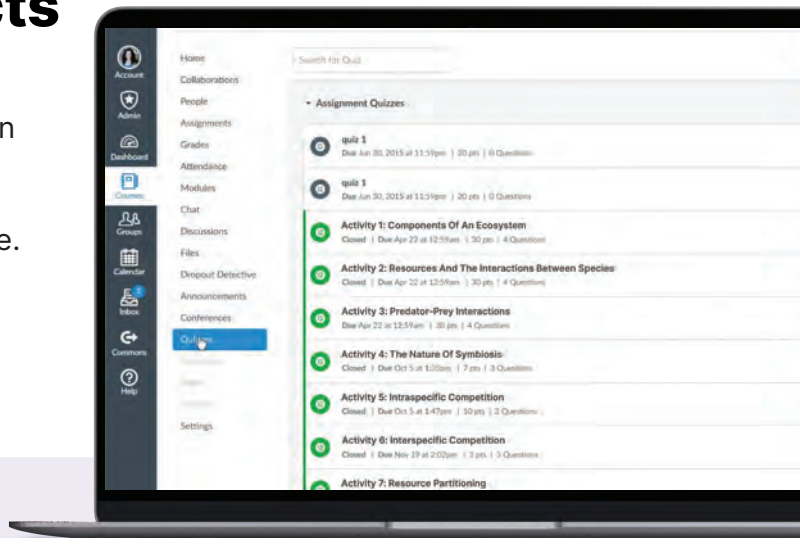
NOTE: All resources listed here for print book users are also provided within BIOZONE WORLD for digital users.





# Multi-Year Contracts

We offer special deals and additional resources for districts/schools who sign up for multi-year contracts. You can speak with our resource advisers or contact [sales@biozone.com](mailto:sales@biozone.com) for a quote.



## Question Library:

This resource provides the embedded questions from the worktext in formats that can be ingested into Learning Management Systems and other digital tools (e.g. Canvas, Google Classroom, etc).

The questions are fully editable, providing teachers with flexibility and control in assigning questions within a differentiated classroom. The questions can be customized to match a students' learning or reading levels.

T&Cs apply for access.

**Available for:** Most titles

**Format:** RTF or QTI via download link

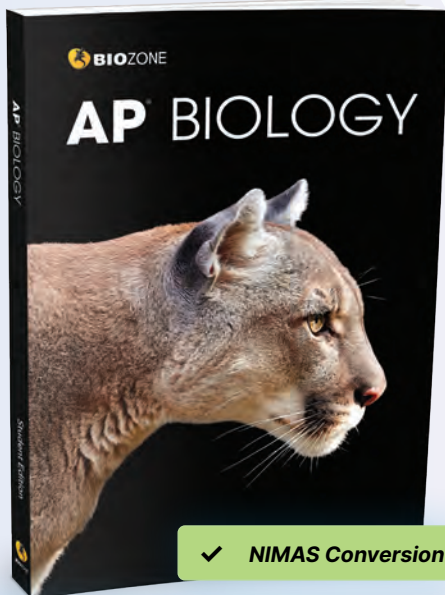
## Testbanks:

BIOZONE Test Bank content provides teachers with a set of 'unseen test questions' designed to be used as an assessment tool to test students' understanding of the content. The test banks are provided in RTF and QTI formats to be ingested into test generator software.



T&Cs apply for access.

**Available for:** Biology for NGSS, Earth & Space Sciences for NGSS, Physical Sciences for NGSS, Chemistry in the Earth Systems, Physics of the Universe, The Living Earth and Biology for Texas





**Format:** RTF or QTI via download link




## Digital - BIOZONE WORLD

-  Student Access
-  Teacher's Access  
(hide and show answers)

## Support Material

-  Teacher's Edition (Print)
-  Classroom Guide (Download)
-  Pacing Guide (Download)
-  Resource Hub
  - 290+ Curated Videos
  - 150+ 3D Models
  - 190+ Weblinks

## Multi-Year Contract Extras

-  BIOZONE Question Library

**Download Price List**  
[BIOZONE.com/us/forms-and-price-list](https://www.biozone.com/us/forms-and-price-list)

See our website for terms and conditions and page 7 for details on Multi-Year Contracts

**FIND OUT MORE:** [BIOZONE.com/us/APB1](https://www.biozone.com/us/APB1)

# AP<sup>®</sup> Biology

Student Edition

978-1-98-856656-6

Teacher's Edition

978-1-98-856657-3

496 Pages

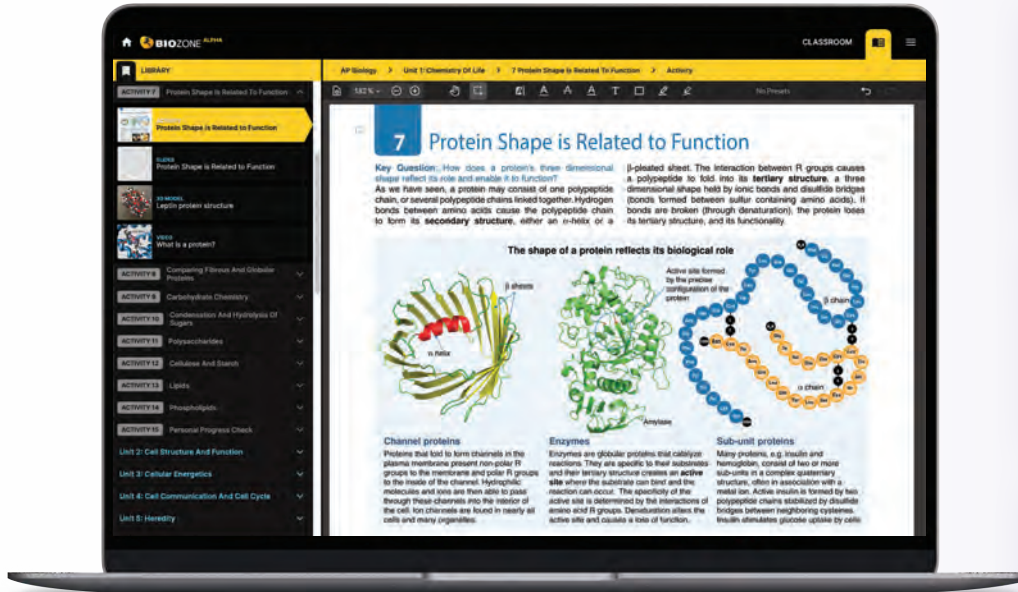
LEXILE Score: 1106-1296 grade 9-12

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<sup>®</sup> 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.

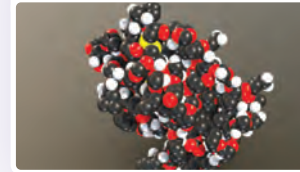


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and download a sample packet**





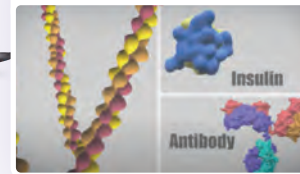
150+ 3D Models



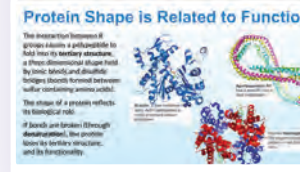
190+ Weblinks



290+ Curated Videos



1000+ Presentation Slides



ONLY ON BIOZONE WORLD

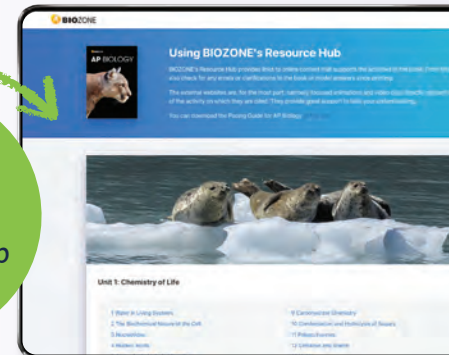


See page 2 to find out about our digital offerings on BIOZONE WORLD  
**Request a FREE 30 Day BIOZONE WORLD full teacher preview**

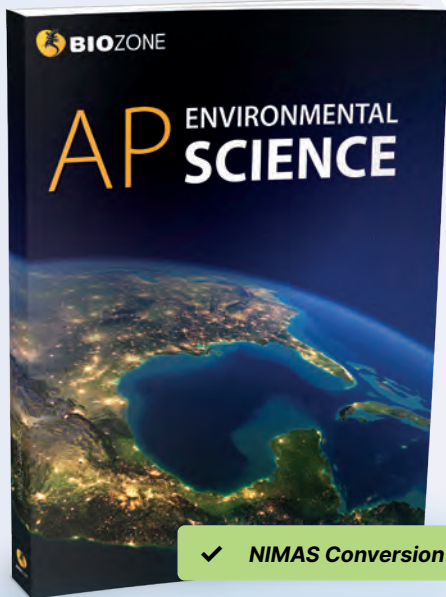
## Contents

- Unit 1: Chemistry of Life
- Unit 2: Cell Structure and Function
- Unit 3: Cellular Energetics
- Unit 4: Cell Communication and Cell Cycle
- Unit 5: Heredity
- Unit 6: Gene Expression and Regulation
- Unit 7: Natural Selection
- Unit 8: Ecology
- Science Practices for Biology

**+ Spanish Glossary available on Resource Hub**



Above: Resource Hub



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

Student Edition

978-1-98-856632-0

Teacher's Edition



978-1-98-856633-7

372 Pages





LEXILE Score: 1084-1248 grade 9-12

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.


## Digital - BIOZONE WORLD

-  Student Access
-  Teacher's Access  
(hide and show answers)

## Support Material

-  Teacher's Edition (Print)
-  Classroom Guide (Download)
-  Pacing Guide (Download)
-  Resource Hub
  - 290+ Curated Videos
  - 150+ 3D Models
  - 190+ Weblinks

## Multi-Year Contract Extras

-  BIOZONE Question Library

## Download Price List

[BIOZONE.com/us/forms-and-price-list](https://www.biozone.com/us/forms-and-price-list)

See our website for terms and conditions and page 7 for details on Multi-Year Contracts

**FIND OUT MORE:** [BIOZONE.com/us/APES1](https://www.biozone.com/us/APES1)

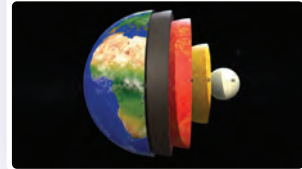


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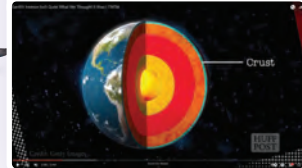
80+ 3D Models



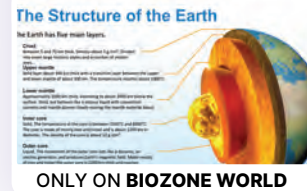
150+ Weblinks



140+ Curated Videos



1180+ Presentation Slides

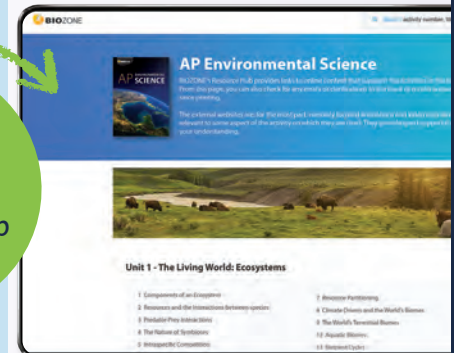


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**Contents**

1. The Living World: Ecosystems
2. The Living World: Biodiversity
3. Populations
4. Earth Systems and Resources
5. Land and Water Use
6. Energy Resources and Consumption
7. Atmospheric Pollution
8. Aquatic and Terrestrial Pollution
9. Global Change
10. Science Practices for Environmental Science Students

**+ Spanish Glossary available on Resource Hub**



Above: Resource Hub



## Digital - BIOZONE WORLD

- Student Access
- Teacher's Access (hide and show answers)

## Support Material

- Teacher's Edition (Print)
- Classroom Guide (Download)
- Resource Hub
  - 210+ Curated Videos
  - 60+ 3D Models
  - 110+ Weblinks

Download Price List  
[BIOZONE.com/us/forms-and-price-list](https://www.biozone.com/us/forms-and-price-list)

See our website for terms and conditions and page 7 for details on Multi-Year Contracts

**FIND OUT MORE:** [BIOZONE.com/us/ENS4](https://www.biozone.com/us/ENS4)

## NEW Environmental Science

Student Edition

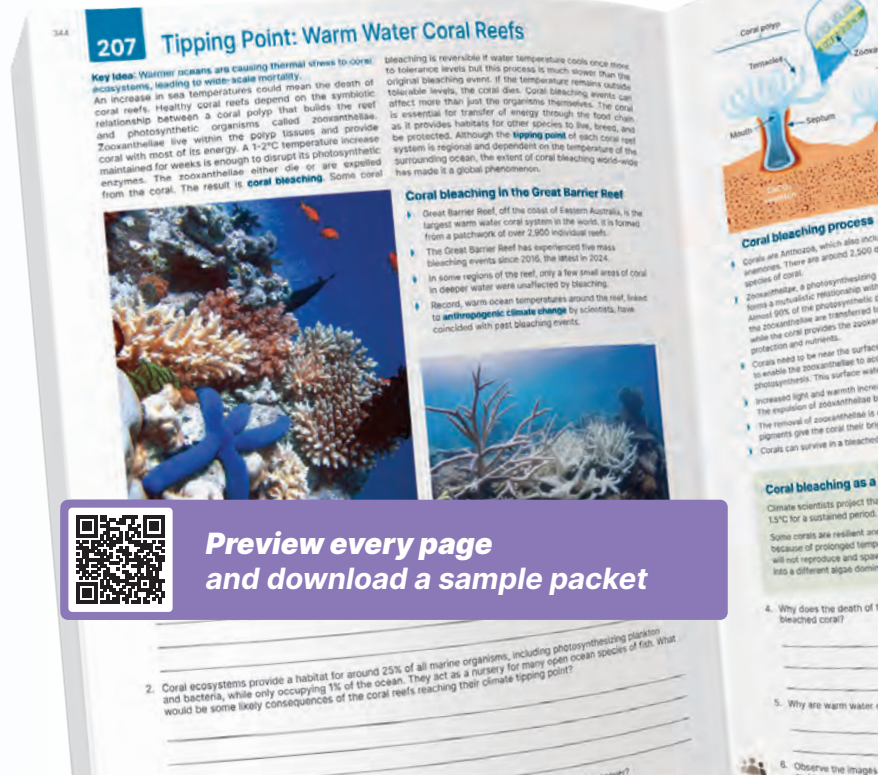
978-1-99-101409-2

Teacher's Edition

978-1-99-101433-7

382 Pages

This fourth edition of BIOZONE's Environmental Science combines the very best features of a light textbook with the utility of a workbook. Its full colour, highly visual content brings the subject to life in an engaging and thought-provoking manner. The four themes: Earth's Systems, Living World, Global Resources, and Global Change introduce students to our planet's physical and biological systems and the ways in which humans interact with them. This new edition includes engaging, real-world data on subjects relevant to students, such as fast fashion and mass travel. A chapter on climate change concludes the book. While many of the problems caused by human exploitation of Earth's resources are highlighted, hope for the future features throughout via content that describes ways in which human induced issues can be mitigated.

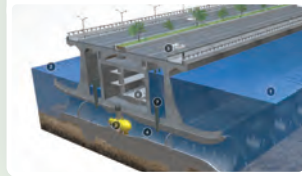


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### 150+ 3D Models



### 190+ Weblinks

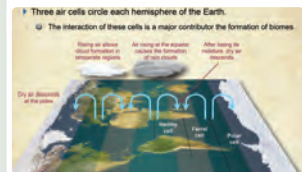
#### "Forever Chemicals" Called PFAS Show Up in Your Food, Clothes, and Home



### 290+ Curated Videos



### Presentation Slides



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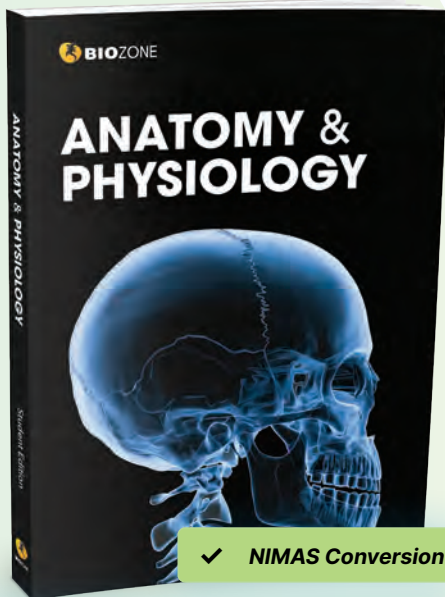
## Contents

1. The Earth's Systems
2. Ecosystems
3. Populations
4. Investigating Ecosystems
5. Land and Water
6. Energy
7. Pollution
8. Conservation
9. Climate Change
10. Scientific Skills and Practices





Above: Resource Hub








✓ NIMAS Conversion

## Digital - BIOZONE WORLD

-  Student Access
-  Teacher's Access  
(hide and show answers)

## Support Material

-  Teacher's Edition (Print)
-  Classroom Guide (Download)
-  Resource Hub
  - 210+ Curated Videos
  - 60+ 3D Models
  - 110+ Weblinks

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[BIOZONE.com/us/forms-and-price-list](https://www.biozone.com/us/forms-and-price-list)

# Anatomy & Physiology

Student Edition

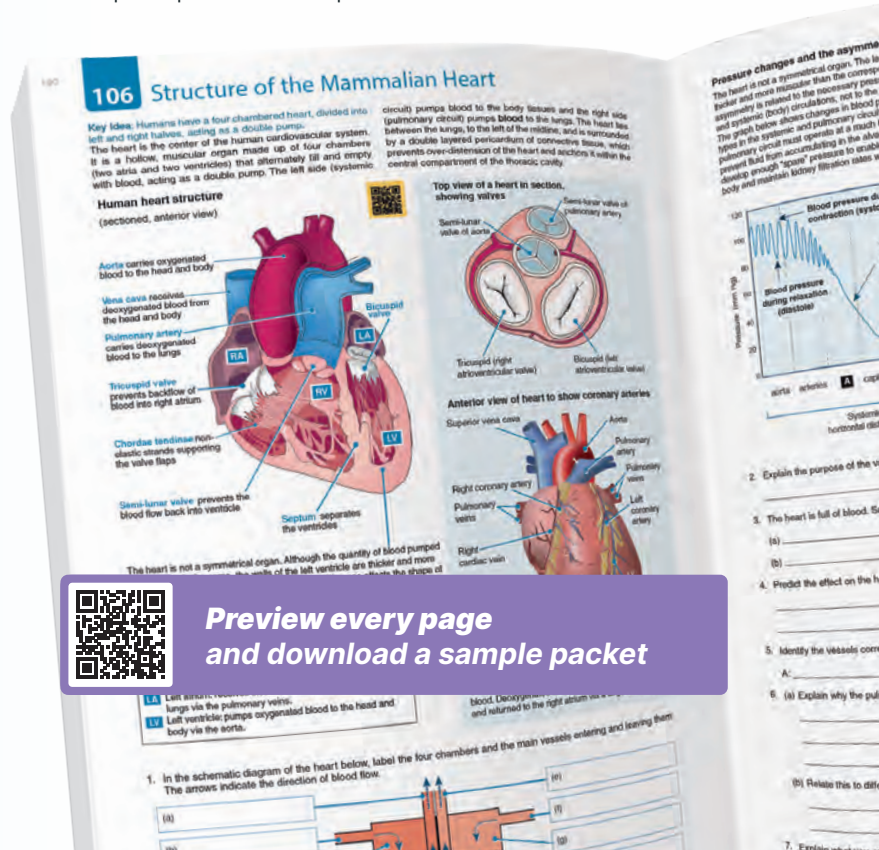
978-1-99-101408-5

Teacher's Edition

978-1-99-101415-3

## 364 Pages

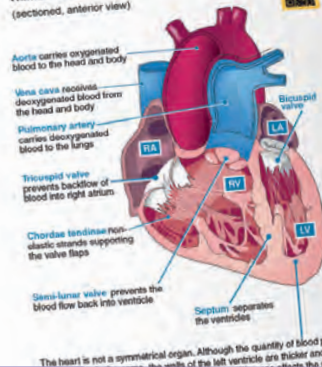
Anatomy and Physiology title has had a significant upgrade. Now in full color, this comprehensive and highly visual workbook provides a sound introduction to the anatomy of the human body and its key physiological functions. Chapters cover all 11 body systems, mapping each to its interaction with the rest of the body using annotated diagrams, reinforcing the interrelatedness of the body systems. Homeostasis provides the unifying theme throughout, and four themes: disease, medicine and technology, aging, and exercise provide lenses through which students explore the body systems within relevant contexts. The result is a rounded exploration of the functioning human. This edition concludes with a set of structured research projects to guide students through an in-depth exploration of a topic that interests them.



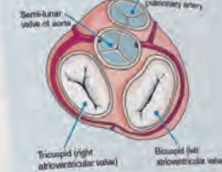
## 106 Structure of the Mammalian Heart

**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.

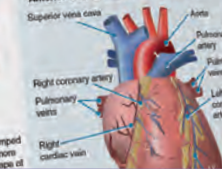
### Human heart structure (sectioned, anterior view)



### TOP view of a heart in section, showing valves

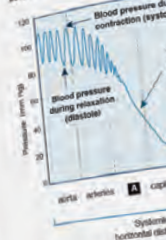


### Anterior view of heart to show coronary arteries



The heart is not a symmetrical organ. Although the quantity of blood pumped by the right ventricle is greater and more than twice the volume of the left ventricle, the shape of the

**Pressure changes and the asymmetry of the heart**  
 The heart is not a symmetrical organ. The left ventricle is thicker and more muscular than the right ventricle and is related to the necessary pressure and volume (body) circulations, not to the pulmonary circuit. The pressure changes in the pulmonary circuit must operate at a much lower level than in the systemic circuit to prevent blood from accumulating in the lungs. The pulmonary circuit must operate at a much lower level than the systemic circuit to prevent blood from accumulating in the lungs and maintain kidney filtration rate.



2. Explain the purpose of the v...
3. The heart is full of blood. S...
- (a)
- (b)
4. Predict the effect on the h...

5. Identify the vessels com...
- A:
6. (a) Explain why the pul...

- (b) Relate this to diff...

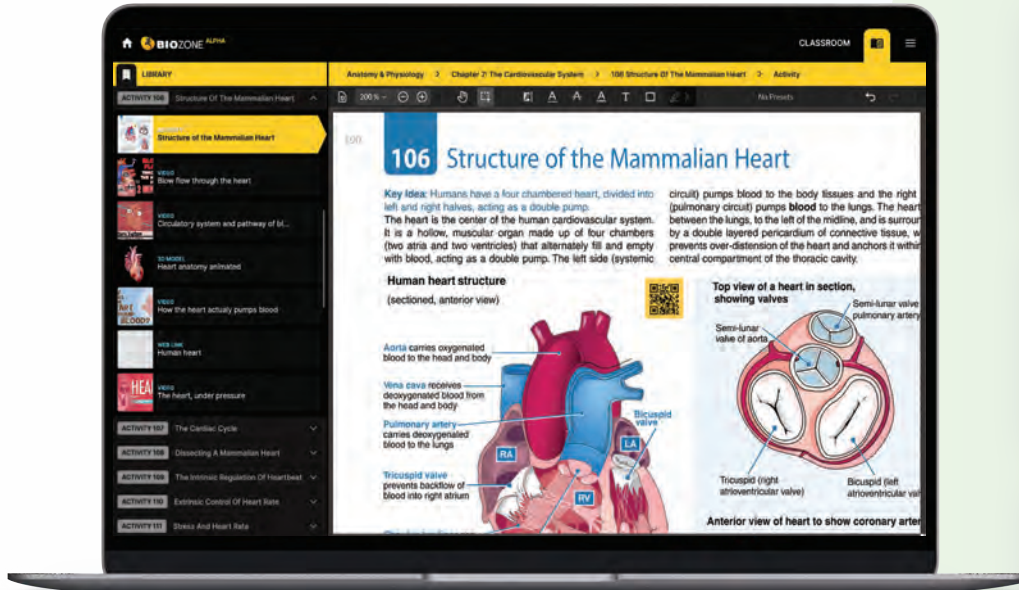
7. Explain the...



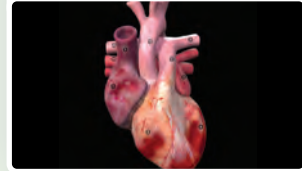
Preview every page  
 and download a sample packet

See our website for terms and conditions  
 and page 7 for details on Multi-Year Contracts

FIND OUT MORE: [BIOZONE.com/us/ANP3](https://www.biozone.com/us/ANP3)



80+ 3D Models



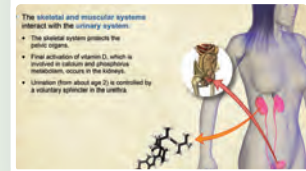
150+ Weblinks



140+ Curated Videos



Presentation Slides



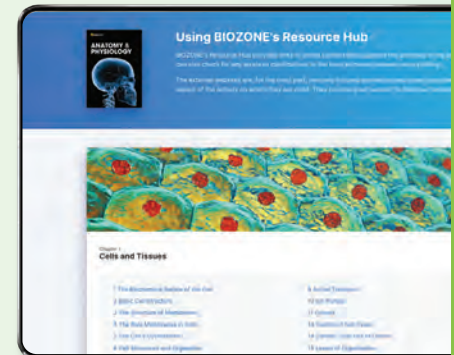
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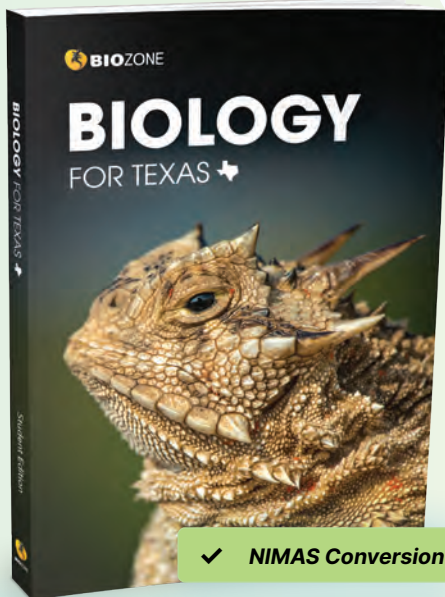
## Contents

1. Cells and Tissues
2. The Integument and Homeostasis
3. The Skeletal System
4. The Muscular System
5. The Nervous System
6. The Endocrine System
7. The Cardiovascular System
8. The Lymphatic System and Immunity
9. The Respiratory System
10. The Digestive System
11. The Urinary System
12. Reproduction and Development





Above: Resource Hub








## Digital - BIOZONE WORLD



-  Student Access
-  Teacher's Access  
(hide and show answers)

## Support Material

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-  Classroom Guide (Download)
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- 440+ Curated Videos
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# Biology for Texas

Student Edition

978-1-99-101405-4

Teacher's Edition

978-1-99-101417-7

480 Pages

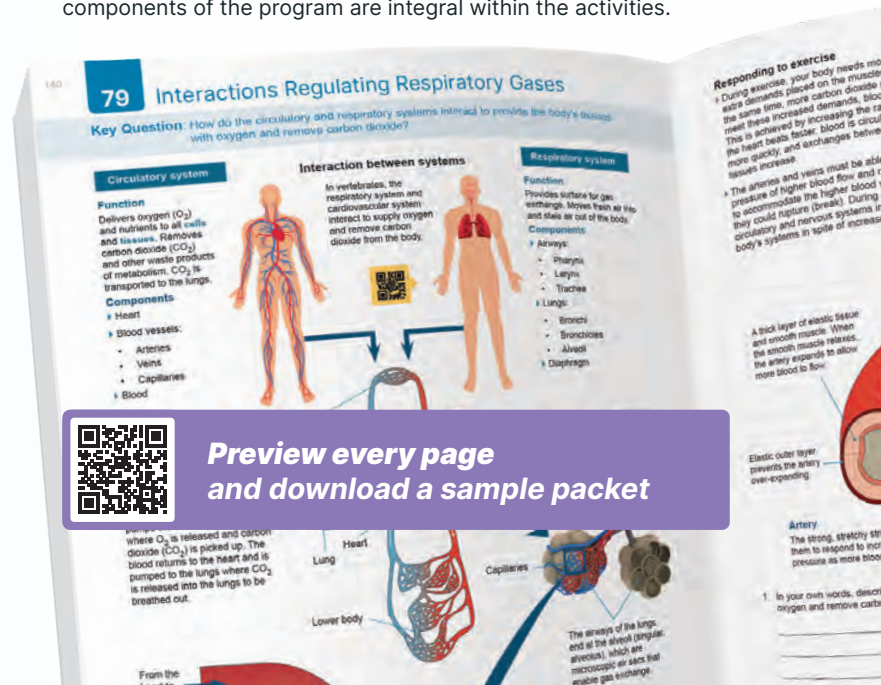
LEXILE Score: 1074-1264 grade 9-10

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.

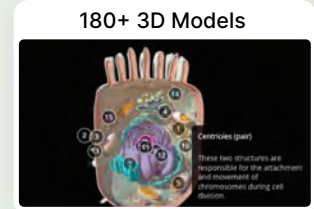
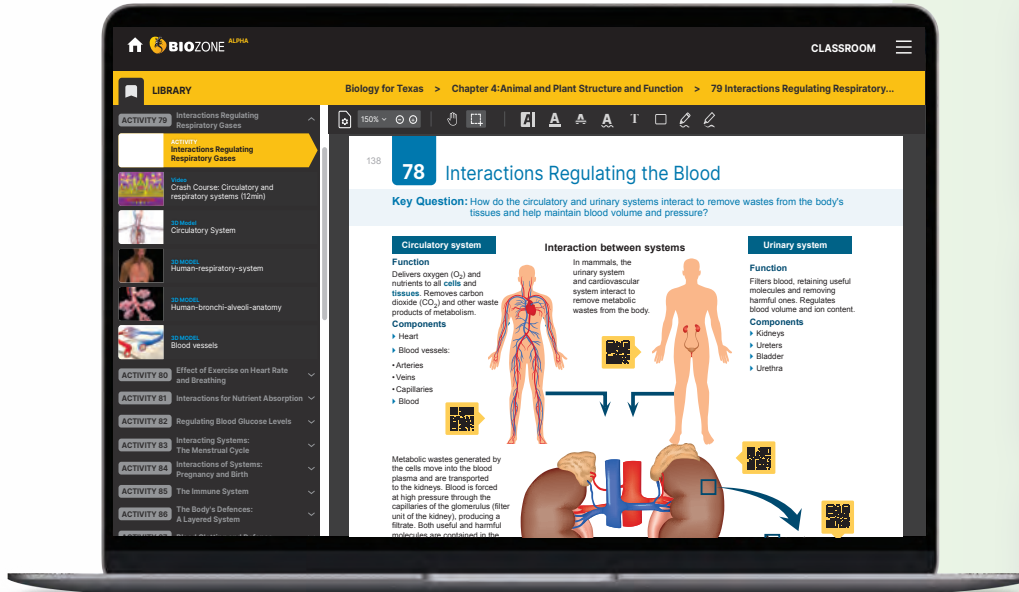
A tab system identifies where the scientific and engineering practices TEKS and Science concepts TEKS are integrated. English Language Proficiency Standards (ELPS) are integrated throughout in a way that requires students to think critically, understand and learn new concepts, process complex academic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



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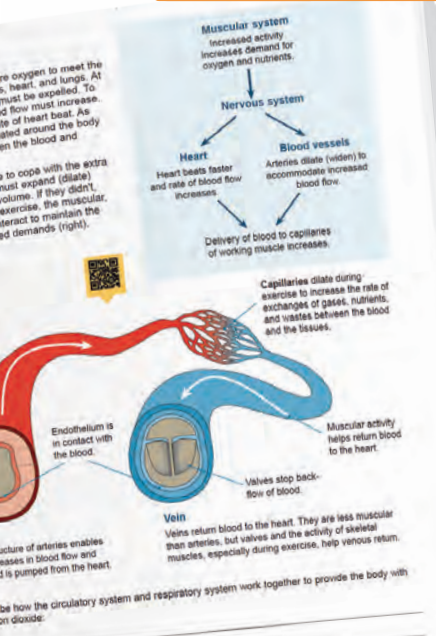






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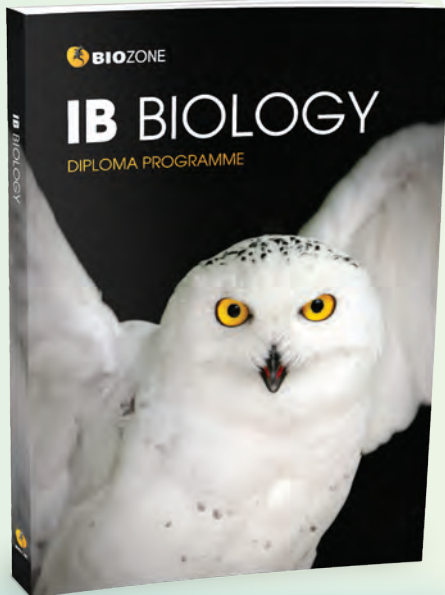


## Contents



1. Cells and Cellular Processes
2. Cell cycle
3. Photosynthesis and cellular respiration
4. Animal and plant structure and function
5. DNA and Gene expression
6. Patterns of Inheritance
7. Common Ancestry
8. Evolution and Natural selection
9. Ecological Interactions
10. Science practices






Above: Resource Hub



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-  Teacher's Access (hide and show answers)

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-  Model Answers (Print) -TEACHER ONLY
-  Classroom Guide (Download)
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  - 170+ 3D Models
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# IB Biology

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978-1-99-101410-8

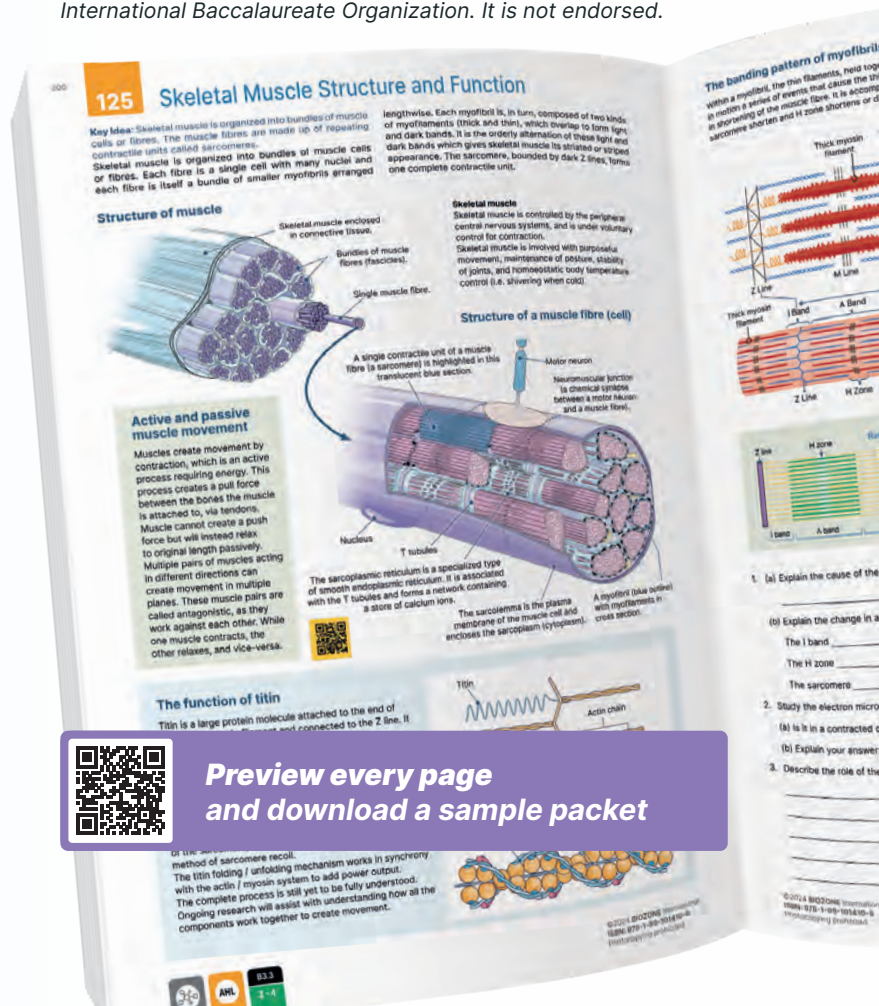
Model Answers

978-1-99-101423-8

612 Pages

BIOZONE continues the innovative development of its highly popular student resource for IB Diploma Biology. Now in full color, this third edition of BIOZONE's IB Biology has been specifically written for the latest IB Biology Diploma program (first assessed in 2025). This comprehensive title integrates BOTH standard level (SL) and higher level (HL) material, ensuring seamless delivery of the IB program with no content gaps.

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

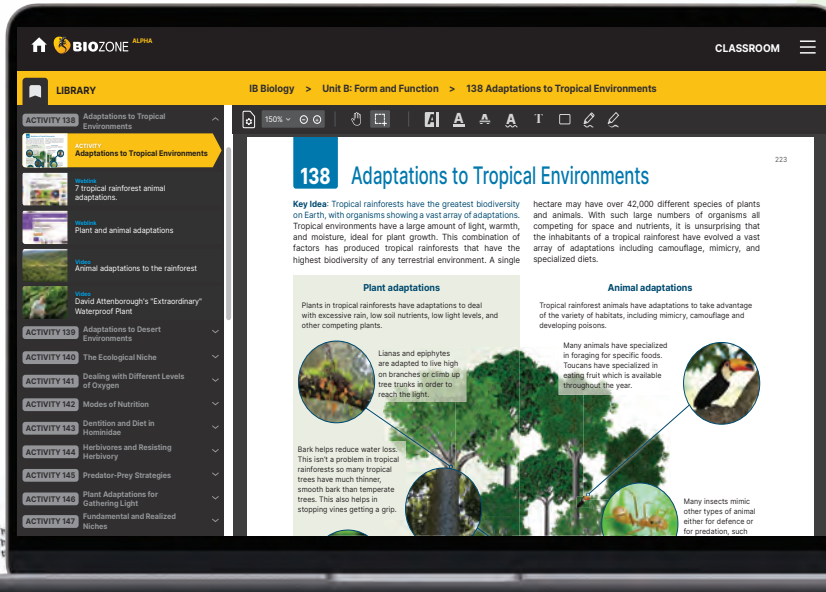


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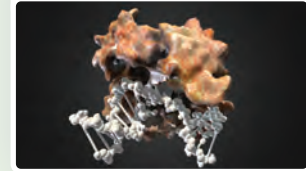
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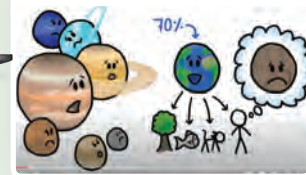
170+ 3D Models



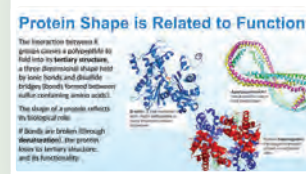
110+ Weblinks



470+ Curated Videos



Presentation Slides



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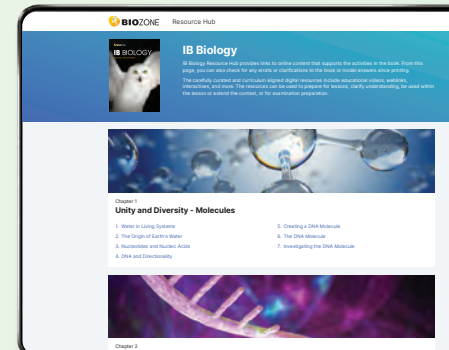
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## Contents

All 4 units cover the following topics:

- Molecules
- Cells
- Organisms
- Ecosystems

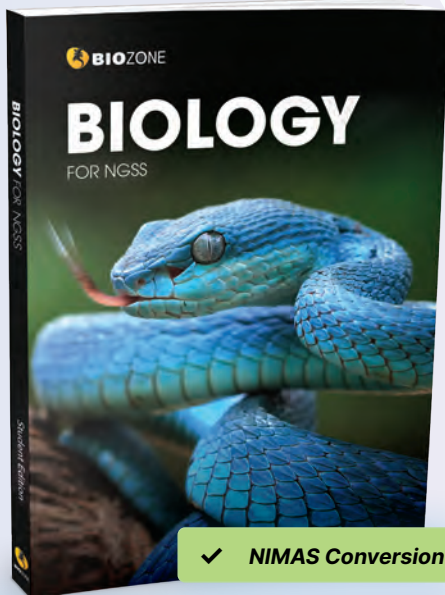
1. Unity and Diversity
2. Form and Function
3. Interactions and Interdependence
4. Continuity and Change
5. Science Skills



Above: Resource Hub

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# Biology for NGSS

Student Edition

978-1-98-856692-4



Teacher's Edition

978-1-98-856694-8




404 Pages

Biology for NGSS has been specifically written to meet the requirements of the Next Generation Science Standards (NGSS) for High School Life Sciences (HS-LS). Users of this truly NGSS-aligned resource can be assured that the three dimensions (Disciplinary Core Ideas, Science and Engineering Practices, and Crosscutting Concepts) form the basis of each activity. Structured on the Disciplinary Core Ideas of the NGSS framework, this title provides a flexible approach to delivering NGSS. BIOZONE'S high-quality infographics and inquiry-driven pedagogical approach inspires students to be curious about the scientific world. 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.



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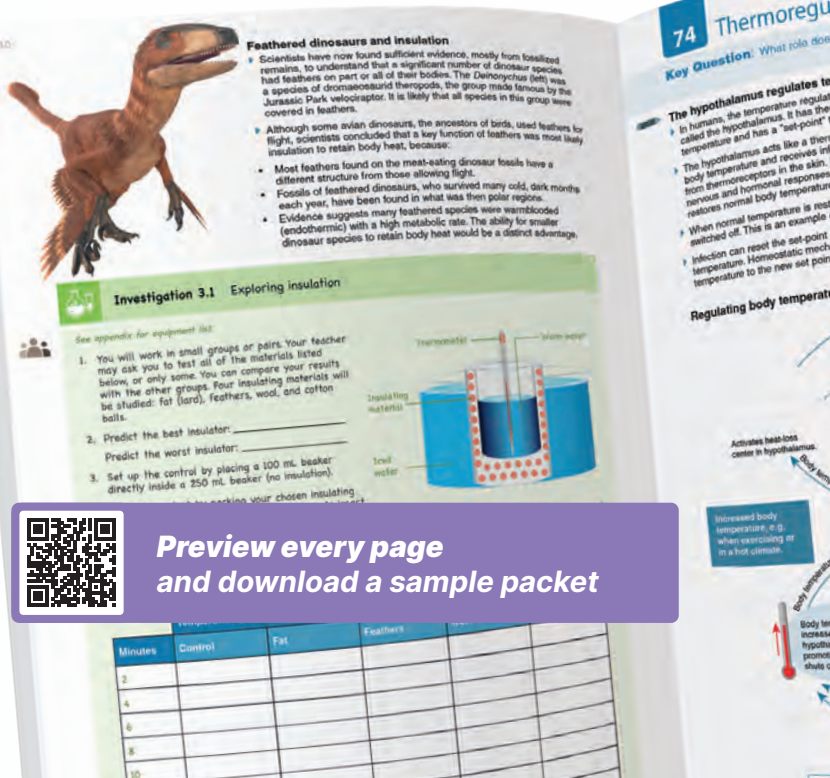
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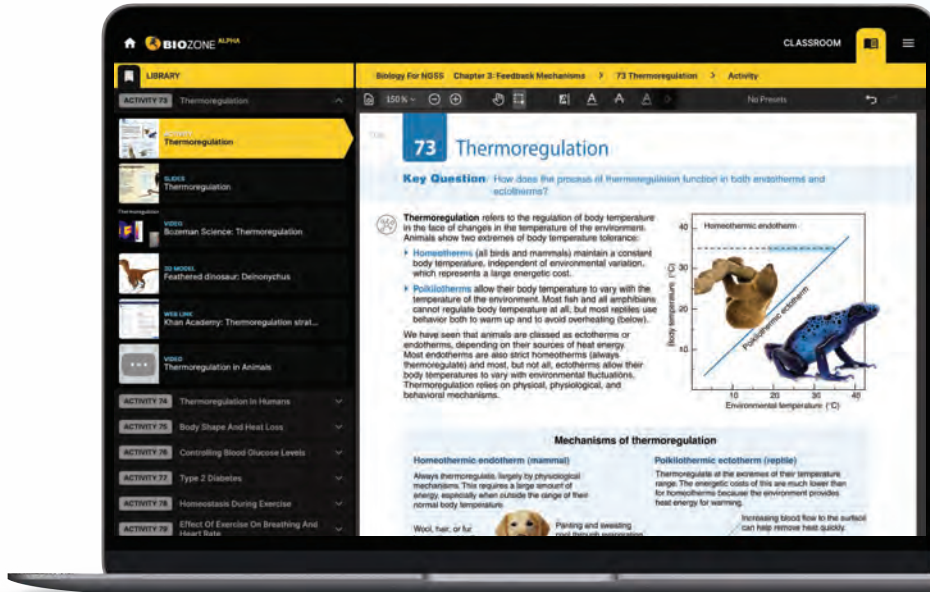
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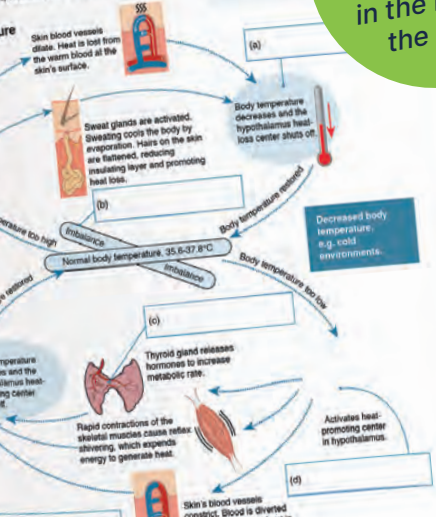
**English / Spanish Glossary in the back of the book!**

### Contents

1. Science Practices
2. Cell Specialization and Organization
3. Feedback Mechanisms
4. Growth and Development
5. Energy in Living Systems
6. Interdependence in Ecosystems
7. Energy Flow and Nutrient Cycles
8. The Dynamic Ecosystem
9. Social Behavior
10. Inheritance of Traits
11. Variation of Traits
12. Evidence for Evolution
13. Natural Selection and Adaptation
14. Biodiversity

lation in Huma  
 the hypothalamus play in r

perature  
 ion center is a region of the brain  
 microreceptors that monitor core body  
 temperature of 36.7°C (98.0°F).  
 It registers changes in the core  
 formation about temperature change  
 it then coordinates the appropriate  
 to counteract any change and  
 as shown in the diagram below.  
 eored, the corrective mechanisms are  
 of a **negative feedback** regulation.  
 of the hypothalamus to a higher  
 animals than act to raise the body  
 1, resulting in a fever (right).





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# Earth & Space Sciences for NGSS

Student Edition

978-1-98-856693-1

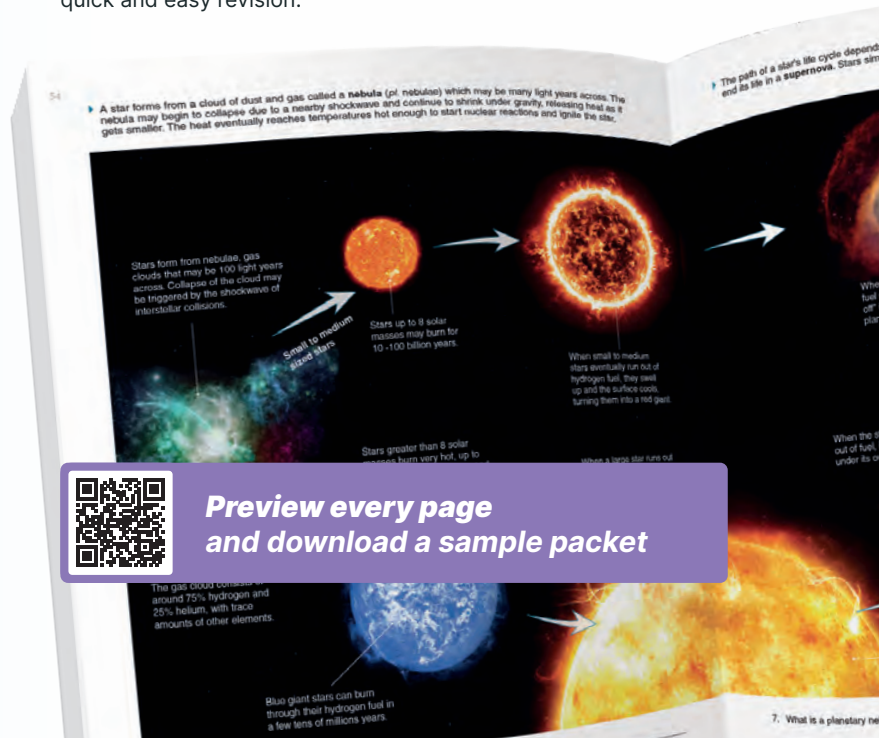
Teacher's Edition

978-1-99-101400-9

**326 Pages**

**LEXILE Score: 1046-1230 grade 9**

Earth and Space Sciences for NGSS has been specifically written to meet the requirements of the Next Generation Science Standards (NGSS) for High School Earth and Space Sciences (HS-ESS). Users of this truly NGSS-aligned resource can be assured that the three dimensions (Disciplinary Core Ideas, Science and Engineering Practices, and Crosscutting Concepts) form the basis of each activity. Structured on the Disciplinary Core Ideas of the NGSS framework, this title provides a flexible approach to delivering NGSS. BIOZONE'S high-quality, infographics and inquiry-driven pedagogical approach inspires students to be curious about the scientific world. 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.

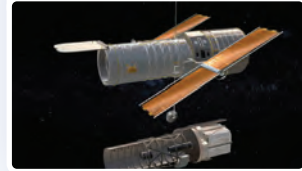


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90+ 3D Models



200+ Weblinks



300+ Curated Videos



Presentation Slides

**Studying the Universe**

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

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**Contents**

1. Science Practices
2. The Universe and Its Stars
3. Earth and the Solar System
4. The History of Planet Earth
5. Earth Materials and Systems
6. Plate Tectonics
7. The Roles of Water in Earth's Surface Processes
8. Weather, Climate and Biogeology
9. Natural Resources
10. Natural Hazards
11. Human Impacts on Earth Systems
12. Global Climate Change

**Earth and Space Sciences for NGSS**

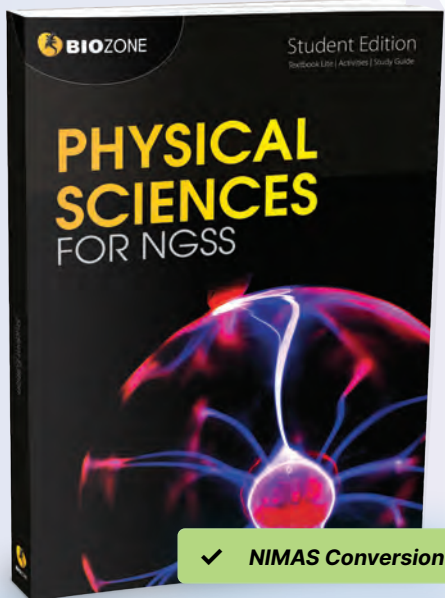
BIOZONE's Resource Hub provides links to various content that supports the activities in the book. This page, you can also check for any errors or suggestions for this book or other resources.

The external weblinks are, for the most part, primarily focused on animations and video clips directly relevant to some aspect of the activity on which they are cited. They provide great support for your understanding.



**Chapter 1 - Reproduction**

- 1. The Nature of Science
- 2. Systems and Models
- 3. Mathematics and Computation
- 4. Connections in Earth and Space Science
- 5. Measuring Distances
- 6. Computational Modeling
- 7. Analyzing and Interpreting Data
- 10. Analyzing and Interpreting Data
- 11. Model Evaluation




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# Physical Sciences for NGSS

Student Edition

978-1-927309-79-7

Teacher's Edition

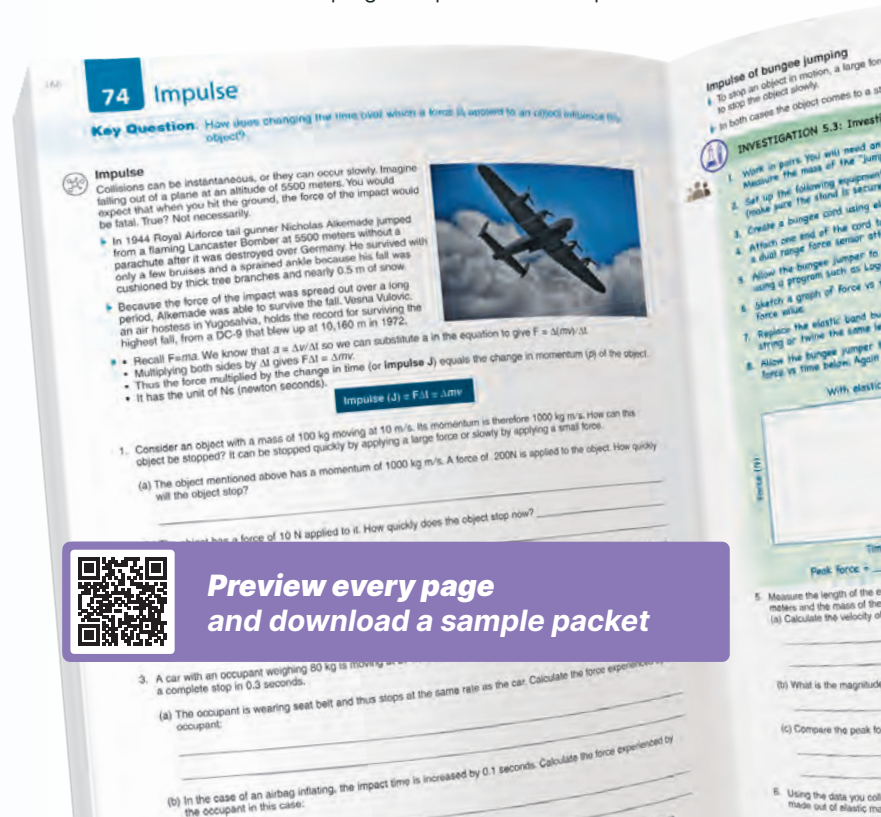
978-1-927309-82-7

318 Pages

LEXILE Score: 977 grade 7

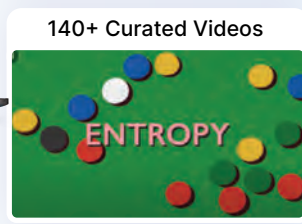
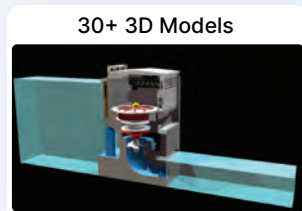
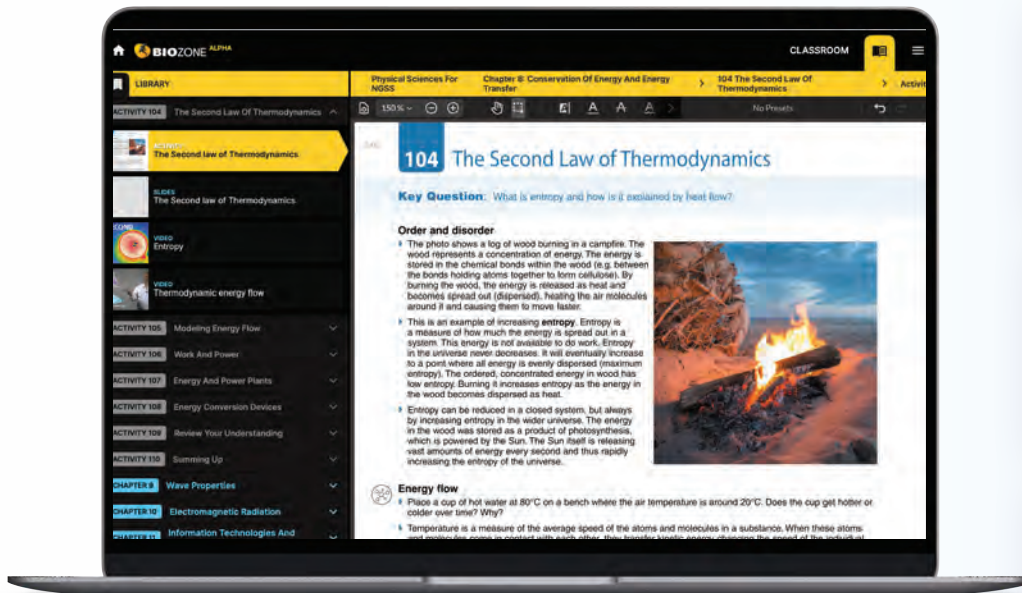
Physical Sciences for NGSS has been specifically written to meet the requirements of the Next Generation Science Standards (NGSS) for High School Physical Sciences (HS-PS). It encompasses all three dimensions of the standards (science and engineering practices, crosscutting concepts, and disciplinary 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.



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...can be applied to stop the ob  
 ...op, but the effects of the stop o  
 ...gating impulse  
 ...old doll or small stuffed animal  
 ...per" in kilograms.  
 ...as shown right  
 ...by clamped to the tabletop)  
 ...lastic bands  
 ...the "jumper" and the other end to  
 ...to the stand.  
 ...fall while you collect force time data  
 ...per fire  
 ...line below. Take note of the peak  
 ...nge cord with a length of inelastic  
 ...length as the elastic bungee cord.  
 ...fall again and sketch the graph of  
 ...note the peak force value.  
 ...band  
 ...Without elastic band  
 ...Force (N)  
 ...Time (s)  
 ...Peak force =  
 ...N  
 ...N  
 ...lastic band bungee cord (or the length of inelastic string as they were the same le  
 ...bungee jumper in kilograms.  
 ...the jumper when it reached the end of the cord (before the cord applied a force t  
 ...and direction of the impulse required to stop the bungee jumper:  
 ...ces identified in the investigation and calculate the time it took the cords to stop the jumper:  
 ...cted from the investigation and what you know about impulse, explain why bungee cords are  
 ...terials rather than something like rope.

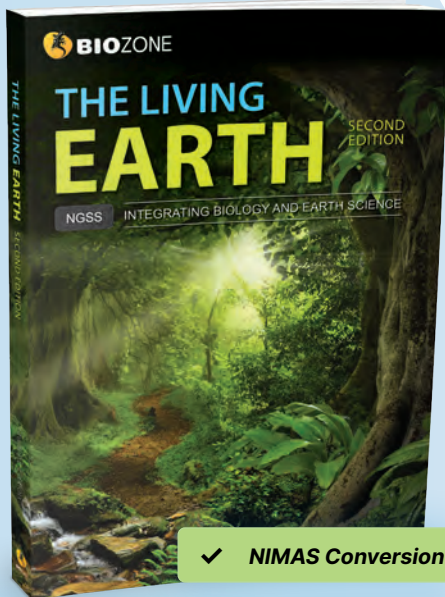
- ### Contents
1. Skills for Physical Sciences
  2. Structure and Properties of Matter
  3. Chemical Reactions
  4. Nuclear Processes
  5. Forces and Motion
  6. Types of Interactions
  7. Definitions of Energy
  8. Relationship Between Energy & Forces
  9. Wave Properties
  10. Electromagnetic Radiation
  11. Information Technologies and Instrumentation

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# The Living Earth

Student Edition

978-1-98-856628-3

Teacher's Edition

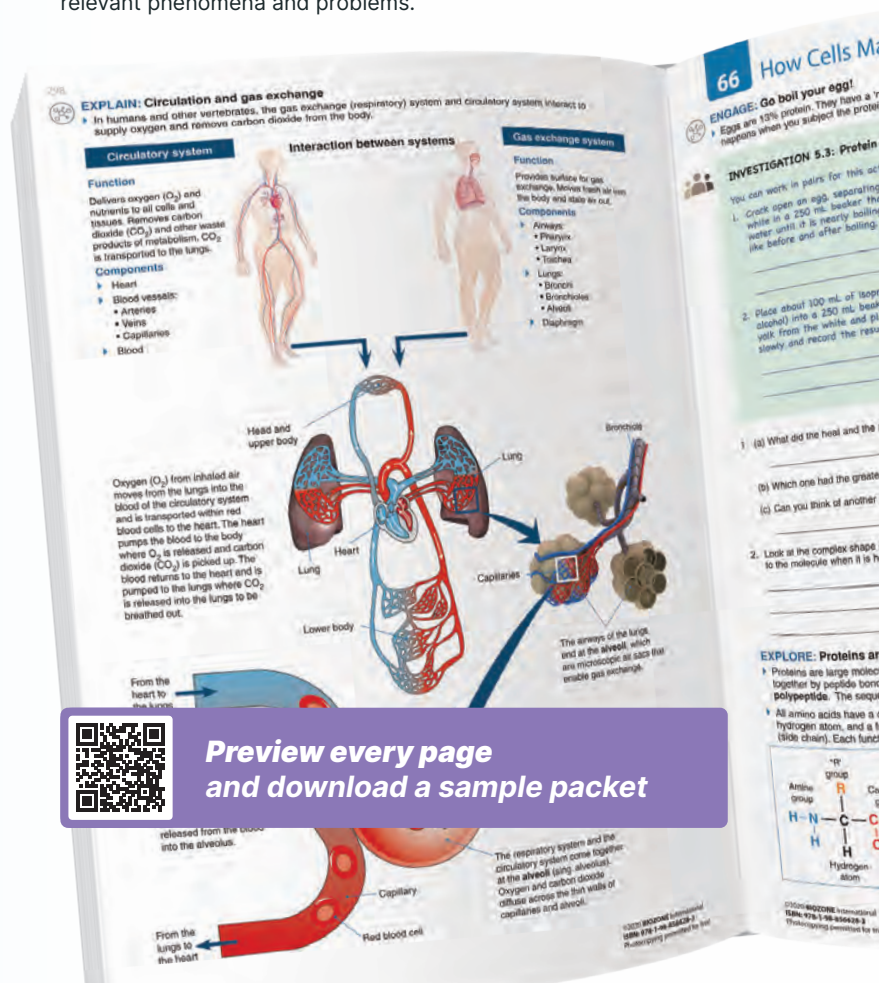
978-1-98-856630-6

422 Pages

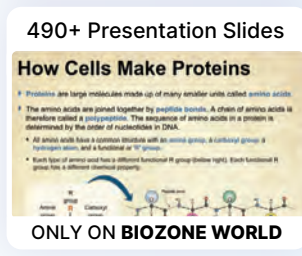
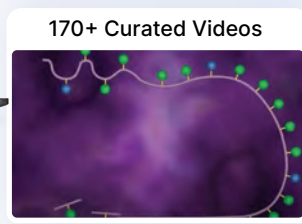
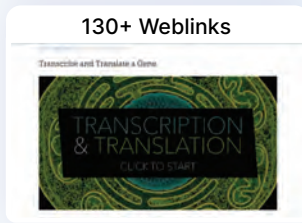
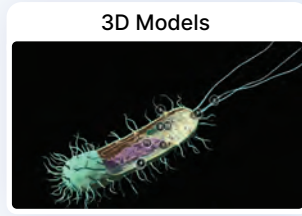
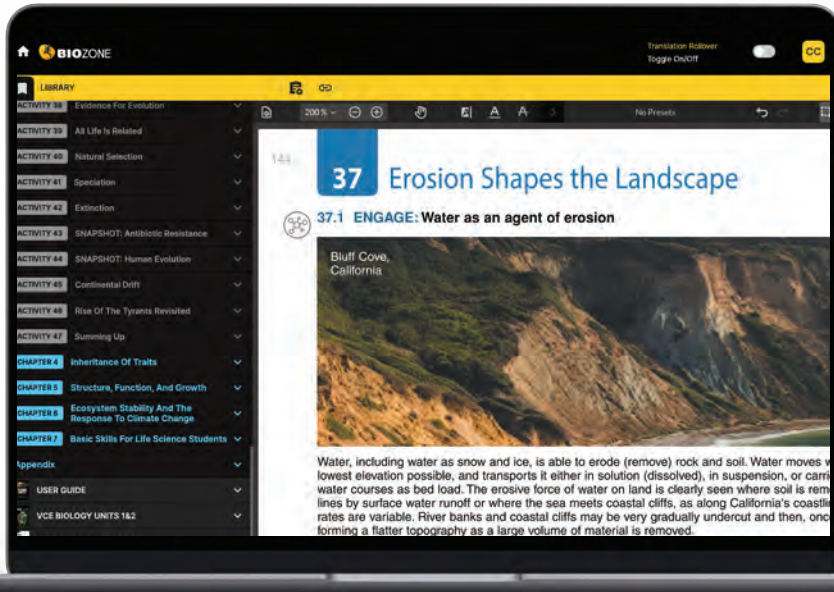
LEXILE Score: 1050-1240 grade 8/9

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.



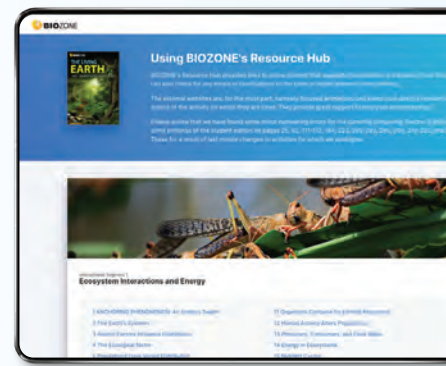
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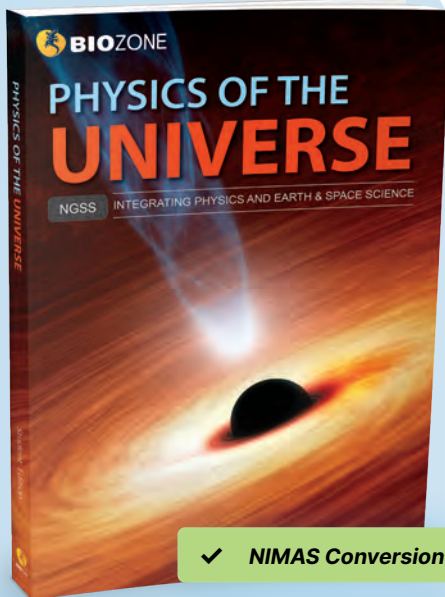
## Contents

1. Ecosystem Interactions and Energy
2. History of Earth's Atmosphere: Photosynthesis and Respiration
3. Evidence of Common Ancestry and Diversity
4. Inheritance of Traits
5. Structure, Function, and Growth
6. Ecosystem Stability and the Response to Climate Change
7. Basic Skills for Life Science Students



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Student Edition

978-1-927309-75-9

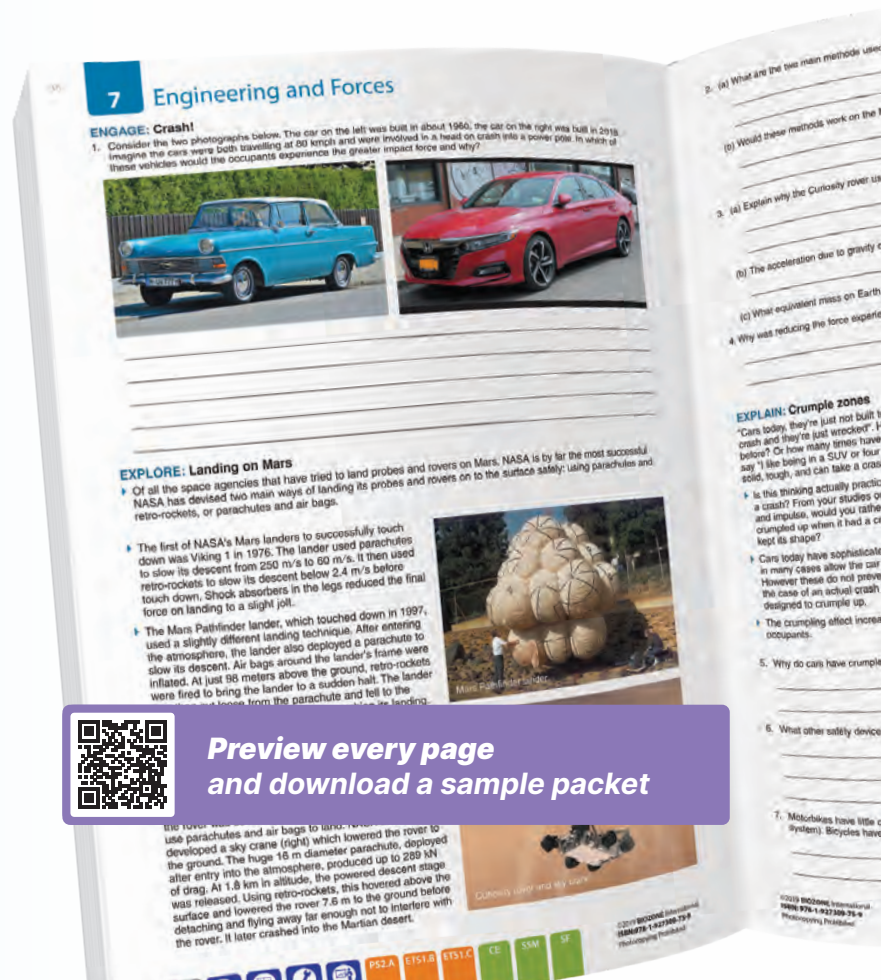
Teacher's Edition

978-1-927309-78-0

294 Pages

LEXILE Score: 1000 grade 7/8

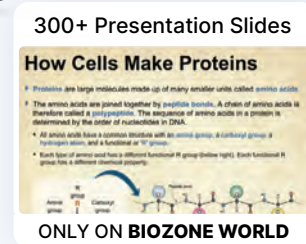
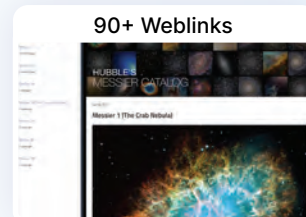
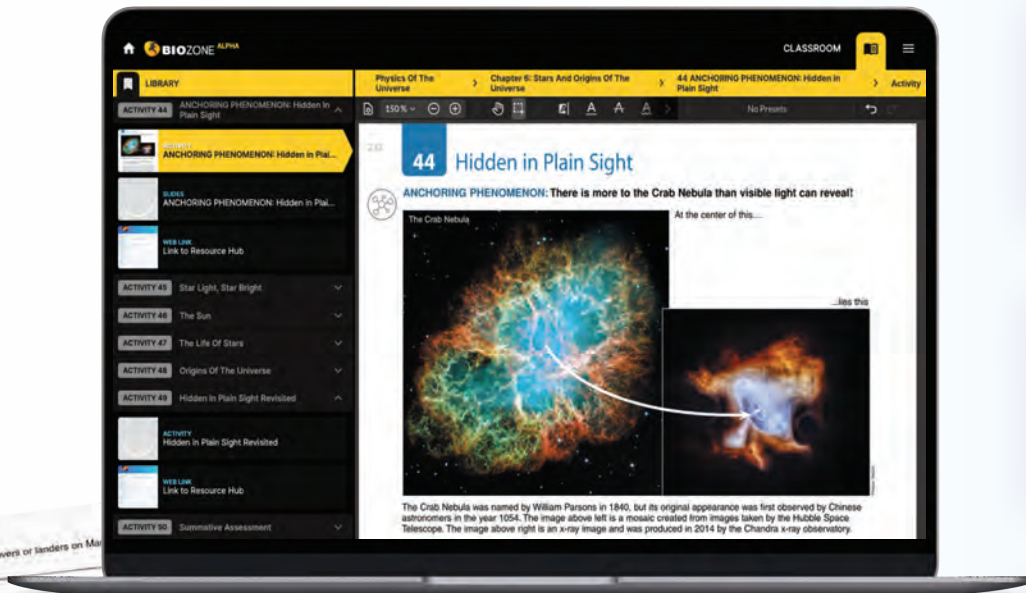
Physics of the Universe has been designed and written following the high school Three-Course Model for California. It will also suit NGSS-aligned states integrating Space Science with Physics. This phenomena-based title takes a three-dimensional approach to provide an engaging, relevant, and rigorous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



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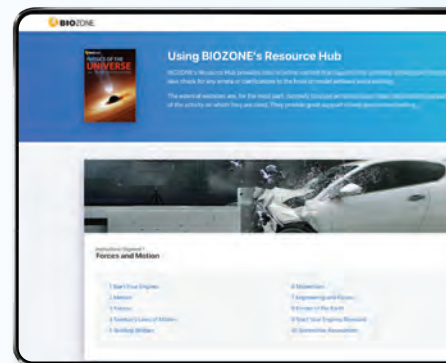
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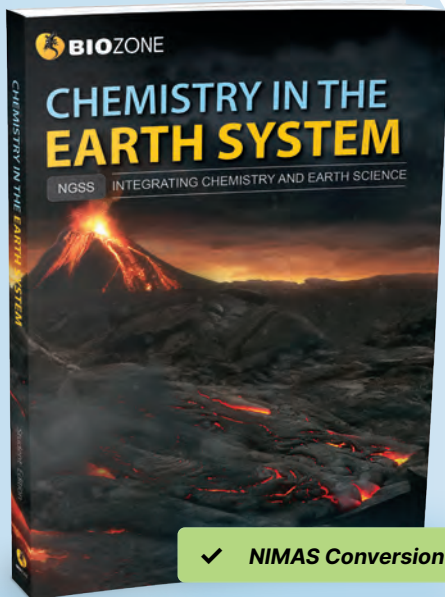
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## Contents



1. Forces and Motion
2. Forces at a Distance
3. Energy Conversion and Renewable Energy
4. Nuclear Processes and Earth History
5. Waves and Electromagnetic Radiation
6. Stars and the Origins of the Universe
7. Basic skills for physics students






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**FIND OUT MORE:** [BIOZONE.com/us/CES1](https://www.biozone.com/us/CES1)

# Chemistry in the Earth System

Student Edition

978-1-927309-71-1

Teacher's Edition

978-1-927309-74-2

254 Pages

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

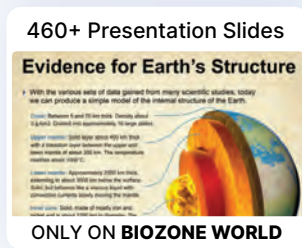
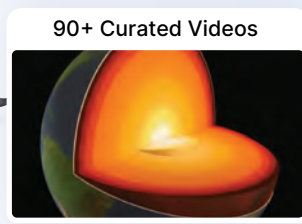
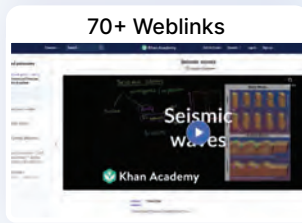
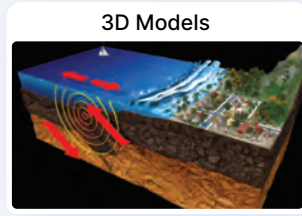
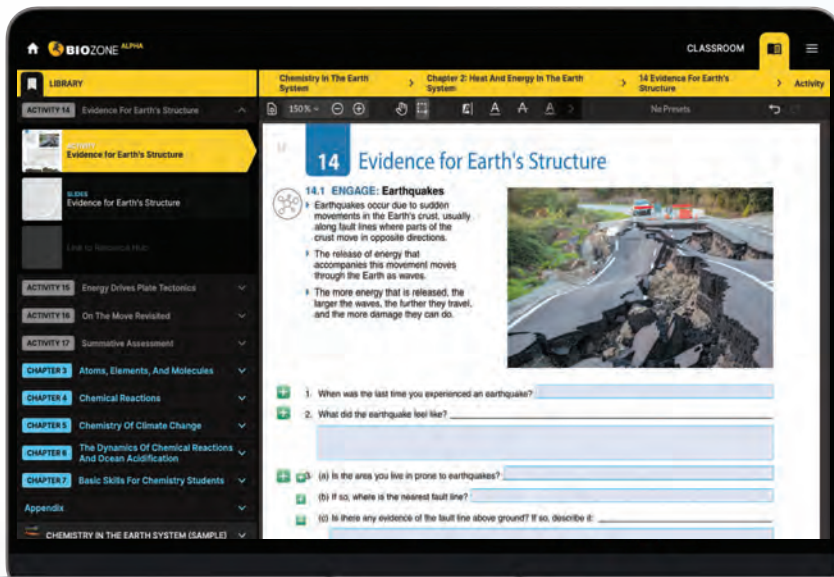
Chemistry in the Earth System has been designed and written following the high school Three-Course Model for California. It will also suit NGSS-aligned states integrating Earth Science with Chemistry. This phenomena-based title takes a three-dimensional approach to provide an engaging, relevant, and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





Below: Digital - BIOZONE WORLD



See page 2 to find out about our digital offerings on BIOZONE WORLD  
**Request a FREE 30 Day BIOZONE WORLD full teacher preview**

### Contents

1. Forces and Motion
2. Forces at a Distance
3. Energy Conversion and Renewable Energy
4. Nuclear Processes and Earth History
5. Waves and Electromagnetic Radiation
6. Stars and the Origins of the Universe
7. Basic skills for physics students



Above: Resource Hub

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





## Professional Development and Program Implementation

We offer structured and tailored Professional Learning and/or Implementation Workshops, designed to equip adopters of our programs with a comprehensive understanding of what BIOZONE offers and how to implement a student-friendly but rigorous program.

Training sessions may range from half day to full day. In-person or via webinar depending on your budget and timeframe.

*For personalized pricing please contact General Manager USA,  
Kimberly Stilwell at  
[kimberly.stilwell@biozone.com](mailto:kimberly.stilwell@biozone.com)*

## Meet the team



**Kimberly Stilwell**  
M.Ed



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



**Mark Temons**  
M.Sc



**Pamela Temons**  
M.Sc



**Rachel M. Aguilar**  
M.A., B.S.



**Sydney Kriel**



**Paolo Curray**

## Professional Development

Discover professional development that empowers science educators to save time, foster confidence, and ignite student engagement.

At BIOZONE, we understand that professional development is the cornerstone of effective teaching. Our tailored programs are designed to equip educators with the tools and knowledge they need to guide students through dynamic science programs with ease.

Our expert team is here to support you every step of the way as you implement your BIOZONE curriculum. We customize each professional learning experience to suit the unique needs of your district, ensuring that every teacher feels confident and prepared to deliver impactful instruction.

Backed by years of experience and a deep understanding of research-based practices, our team of educators and curriculum developers are committed to your success. Join us in empowering teachers and inspiring student achievement.

## Science Curriculum Implementation

Embark on a transformative journey of science curriculum implementation with BIOZONE. Our personalized professional development workshops are tailored to empower you every step of the way.

We believe in meaningful and ongoing support to equip teachers with the tools they need to implement our curriculum with fidelity. From personalized learning experiences to continuous engagement throughout the program adoption process, BIOZONE is committed to your success.

Our approach is rooted in understanding the unique needs of your students and the objectives of your science programs. We ensure that our services provide unparalleled expertise and attention from dedicated facilitators focused on driving teacher and student achievement with the BIOZONE products.

Please reach out to us to craft your personalized Professional Learning Plan for science curriculum implementation. Let's create a roadmap to excellence together."

# How to order

## Schools/ Districts

As a school or district you have access to our full catalog of products. Using an official institutional email and shipping address, you can order directly from our website, through a reseller or you can get in touch with one of our Resource Advisors.

### Purchasing Digital - BIOZONE WORLD, renewals & Multi-year contracts

Contact one of our resource advisers, or contact our sales team [sales@biozone.com](mailto:sales@biozone.com) to purchase digital access to our resources via BIOZONE WORLD.

### Multi-Year Contracts / Adoptions

We offer special deals and additional resources for districts/schools who sign up for multi-year contracts. You can speak with our Resource Advisors or contact [sales@biozone.com](mailto:sales@biozone.com) for a quote.

### Renewals

**Print Renewals:** BIOZONE does not autoship books each year. The process is similar each year. The district can contact us or we will contact them to arrange an appropriate ship date. Some districts provide a preferred delivery date for subsequent years during the initial order. Customer Service will verify before the delivery that the address is open for deliveries during the summer break.

If no date is given, a BIOZONE Resource Advisor will follow up before the end of the school year to gather the following information:

- Change in Quantities
- Delivery date and address of print books
- Date/s to access Student and/or Teacher resources

**Digital Renewals - BIOZONE WORLD:** The process is similar each year. The district can contact us or we will contact the school before the end of the school year. An email will be sent requesting the preferred start date/s to access student and/or teacher resources. Additional information will be requested via a BIOZONE WORLD Digital Platform Admin Form sent by our Customer Service Team.

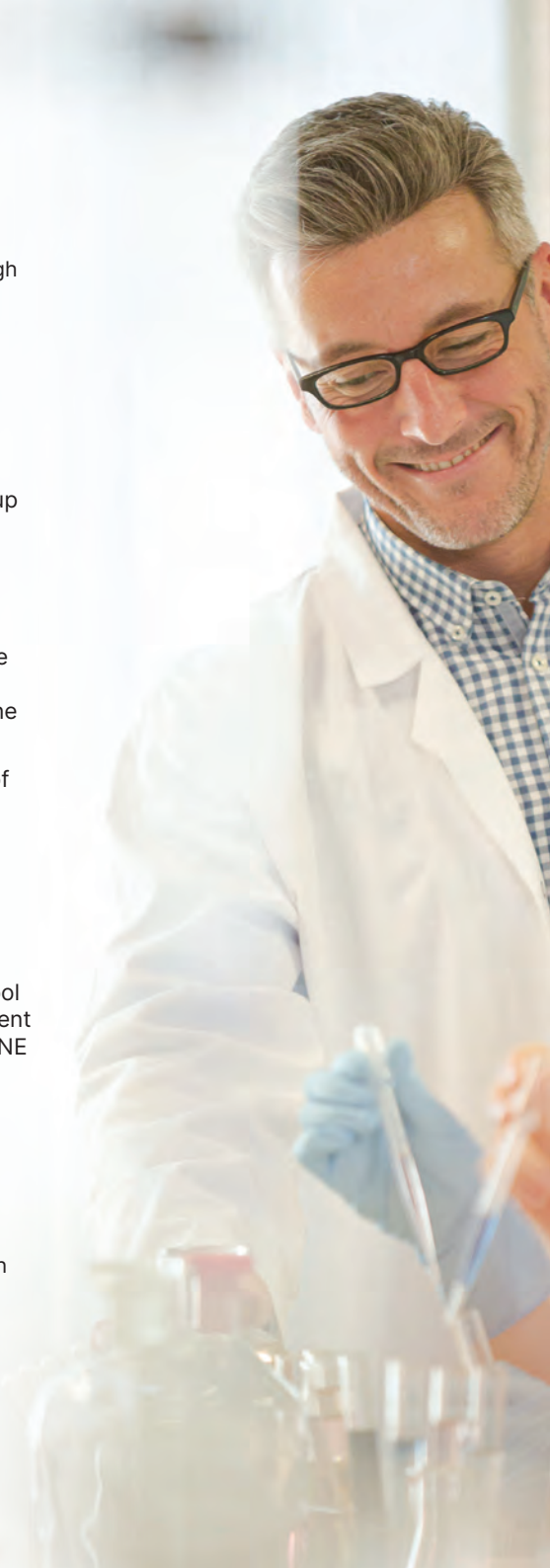
Once the form has been completed, we will provide setup information. Contact [sales@biozone.com](mailto:sales@biozone.com) to renew.

## Home Schoolers

You can order our Student Editions directly from our website, through a reseller or get in touch with one of our Resource Advisors.

## Becoming a Reseller

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If you haven't received your products within 7 working days of ordering and your tracking details are not working please contact our Sales Team.

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If your order contains one or more backorders or out-of-stock items, then we will wait until all products are in stock before dispatching. If you would like a split delivery, please place a separate order for pre-order items. Please note that split deliveries will incur additional shipping fees.

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You must first contact [sales@biozone.com](mailto:sales@biozone.com) for a Returned Merchandise Authorisation (RMA) number to return goods. Returned goods will not be accepted nor any credit given without an RMA number accompanying the returned goods.

Please note that this applies to print product only – our software is sold on a firm sale basis.

**Send returns to:** BR Printers Attn: BIOZONE, 3962 Virginia Ave. Cincinnati, OH 45227

# About BIOZONE

BIOZONE stands out by uniquely blending the best elements of a highly-visual **textbook** with the practicality of an interactive **workbook**.

This innovative hybrid, known as an interactive **worktext**, eliminates the need for a separate textbook, offering an all-in-one educational resource.

Our 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 we bring the very latest sound scientific and pedagogical principles to all of BIOZONE's titles. The result is accessible, yet rigorous, programmes designed to engage learners of all types, in both print and digital formats. 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:**  
Northern Gannet (*Morus bassanus*)  
Photo by Jonny Gios  
Unsplash





## 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.



# BIOZONE

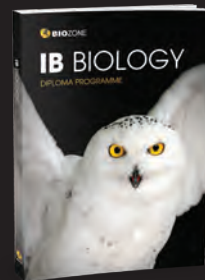
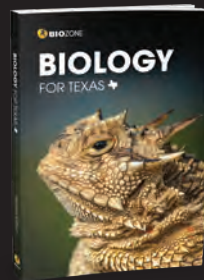
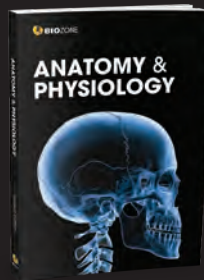
Inspiring better outcomes for our planet through science education



We have a large network of local and experienced resource representatives. Find yours here:

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

## Latest Editions



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