

2024 CATALOG

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.



BIOZONE's full Terms and Conditions be viewed at: biozone.com/us/terms-and-conditions

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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 representive to find out more or book a Professional Development session.

Webeker

BIOZONE WORLD

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

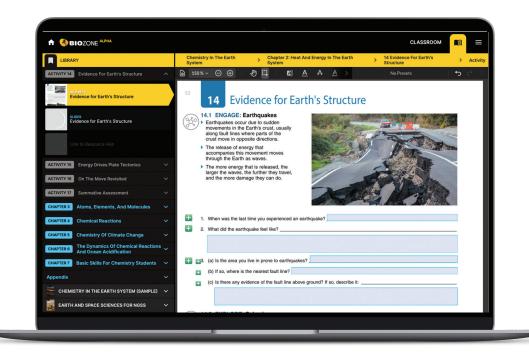
With access to student editions, suggested answers in place, presentation media, all resource hub material, and classroom guides, teachers have everything they need to successfully deliver an engaging science course.

This platform provides a seamless and intuitive experience, allowing teachers to easily navigate between resources and effortlessly deliver engaging lessons to their students.

BIOZONE WORLD is the ultimate toolkit for teachers looking to enhance their science curriculum and inspire their students to explore the wonders of the scientific world.

Access to **BIOZONE WORLD** is provided by the purchase of institutional (school) licenses to specific book titles. A minimum of 20 licenses must be purchased.







Student Access

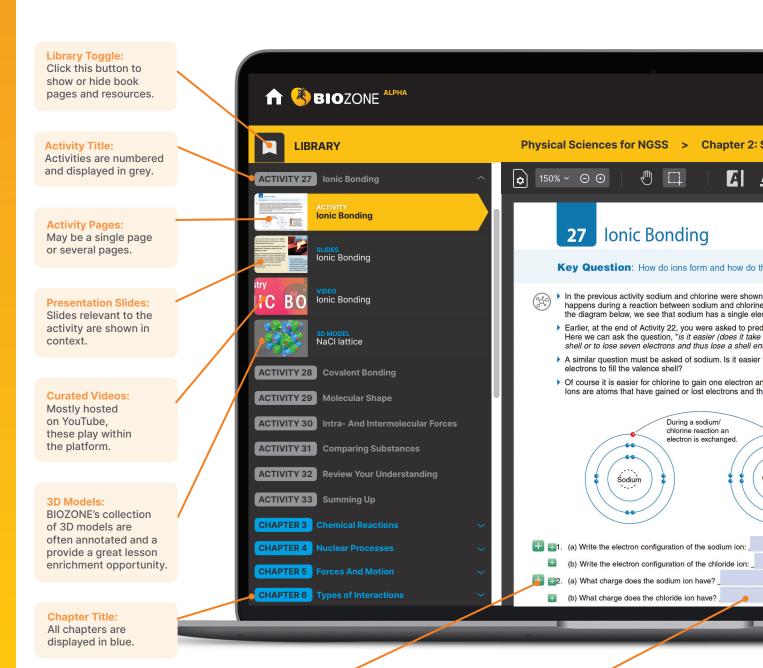
Digital replica that displays an interactive version of the book:

- 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.



Curated Web-links:

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

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



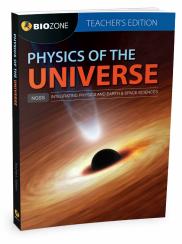
risk-free for 90 days

biozone.com/us/bw-trial



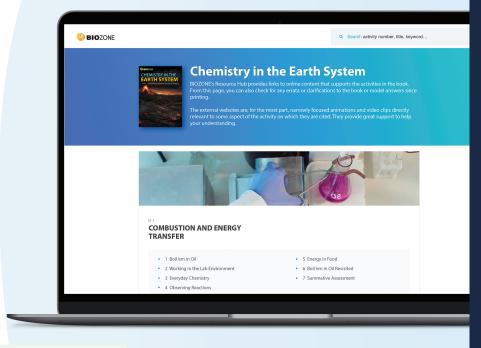
Teacher Support

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 $\ensuremath{\mathsf{QTI}}$

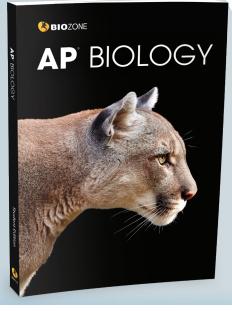
Our Resource Hub is a free resource, available to students and teachers. It offers a curated collection of Open Educational Resources (OER) specifically chosen to support the content of the worktext.

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.





D Student Access



Teacher's Access (hide and show answers)

Print User Support Material



- Teacher's Edition (Print)
- L, Classroom Guide (Download)



Pacing Guide (Download)

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

Download Price List BIOZONE.com/us/pricelist23

ALL prices exclude sales tax and shipping.

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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.

Find out more: BIOZONE.com/us/product/APB1

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

Preview every page and find out more



Protein Shape is Related to Function



1. Using the example of insulin, explain how interactions between R groups stabilize the protein's function

Compari







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

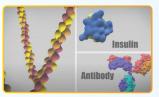
content and our OER support resources, it allows teachers to grade student

Explore BIOZONE WORLD risk-free for 90 days

work. Ignite your students' passion for science with BIOZONE WORLD.

150+ 3D Models

290+ Curated Videos



1000+ Presentation Slides



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.

FREE for purchasers







D Student Access



Teacher's Access (hide and show answers)

Print User Support Material



- Classroom Guide (Download)



- Pacing Guide (Download)
- Resource Hub
 - 140+ Curated Videos
 - 80+ 3D Models
 - 150+ Weblinks

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Find out more: BIOZONE.com/us/product/APES1

AP® 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

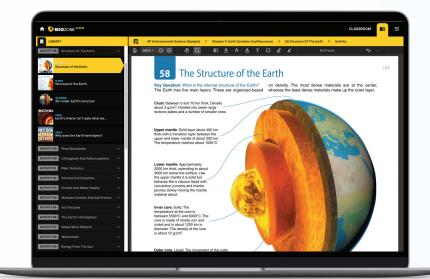
and find out more

Preview every page



VANISHING INSECTS: Why does blo FCOMPOSER PEST CONTROLLERS Predatory insects play a cr 1: PROVIDERS Insects are part of almost all food chains as prey for a wide range of other animals, including birds, bats, amphibians, and fish. FIVE CRUCIAL INSECT ROLES Insects have a central role in the nsects have a central role in the acceystem services humans rely on for survival. The decline in the numbers and diversity of insects has serious quences for a sustainable futur What may happen without insects

the orimary cause of the current lack of genetic diversity in modern sea otter population



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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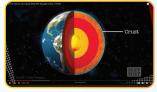
80+ 3D Models



150+ Weblinks



140+ Curated Videos



1180+ Presentation Slides

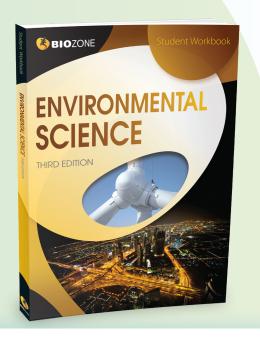


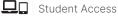
RESOURCE HUB

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.

FREE for purchasers







Teacher's Access (hide and show answers)

Extra Support Material

Resource Hub

- Curated Videos
- Weblinks
- Model Answers Booklet
- ENVIRONMENTAL

New Edition	coming	2024
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ALL prices exclude sales tax and shipping.

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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.

Find out more: BIOZONE.com/us/product/ENS



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.

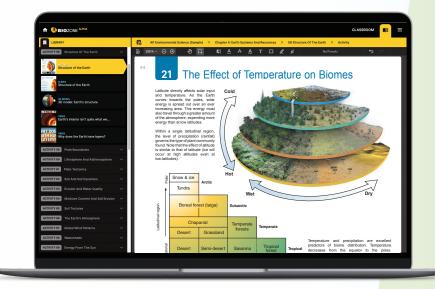
Preview every page and find out more



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2007 3013 BIO2U ISBN: 978-1-820



BIOZONE WORLD revolutionizes science education with an immersive learning experience. Explore the 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.



Explore BIOZONE WORLD risk-free for 90 days

50+ 3D Models



140+ Weblinks



240+ Curated Videos



750+ Presentation Slides



RESOURCE HUB

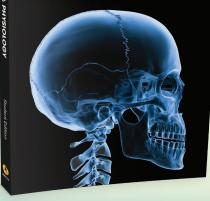
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ANATOMY & PHYSIOLOGY



BIOZONE WORLD Digital Formats



Student Access

Teacher's Access (hide and show answers)

Extra Support Material



Teacher's Edition (Print)



14

Classroom Guide (Download)

Resource Hub

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

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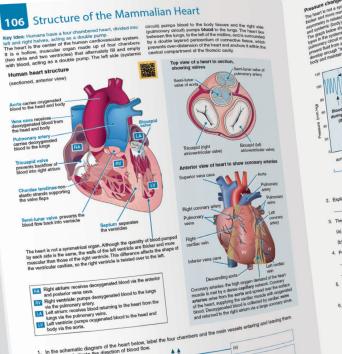
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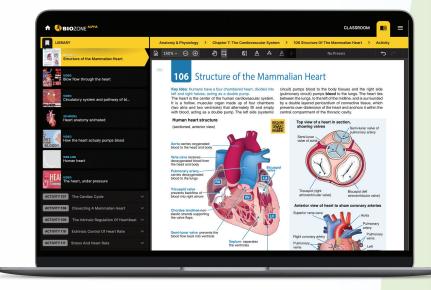
Anatomy & Physiology Student Edition (3rd Edition)

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







BIOZONE WORLD revolutionizes biology education with an immersive learning experience. Explore the Anatomy and Physiology worktext featuring 3D models, slides, weblinks, and videos. Engage with captivating visuals, and interactive activities, 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.



Explore BIOZONE WORLD risk-free for 90 days

80+ 3D Models







140+ Curated Videos



Presentation Slides



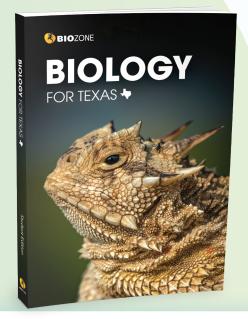
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(hide and show answers)

Print User Support Material



- Classroom Guide (Download)
- Pacing Guide (Download)
- Implementation Guide (Download)

Resource Hub

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

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Biology for Texas Student Edition

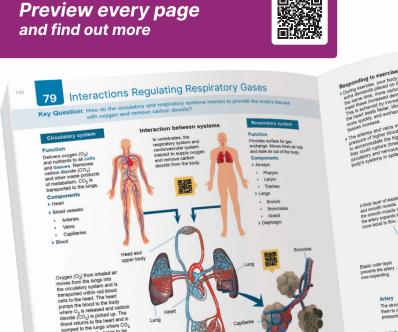
Biology for Texas has been written for the Texas Essential Knowledge and Skills (TEKS) for Science (High School Biology) specified in Proclamation 2024. Biology for Texas is a wellrounded resource, combining the program's required elements with BIOZONE's trademark rigorous and highly visual approach.

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





BIOZONE WORLD revolutionizes biology education with an immersive learning experience. Explore the Biology for Texas 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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310+ Weblinks

180+ 3D Models

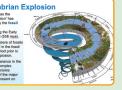


440+ Curated Videos



Presentation Slides



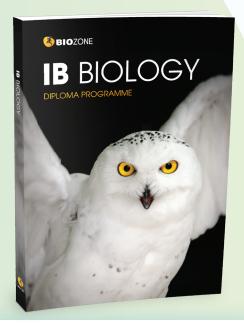


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L Student Access



Teacher's Access (hide and show answers)

Print User Support Material



18

Classroom Guide (Download)

Resource Hub

- Curated Videos
- 3D Models
- Weblinks

Coming Early 2024

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IB Biology Student Edition

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.

Find out more



Allopatric and Sympatric Speciation

Allopatric speciation requires a geographical Idea: Allopatric speciation requires a geographical r to separate populations, while sympatric speciation cour when two populations, occur the same area cases of speciation, gene flow between population duced or prevented entirely. A geographic barrier

Geographical isolation

Geographical isolation describes the isolation of a species population (and pool by some kind of physicals barrier, bu-riampile, mountain range, water body, luthma, seert, or lice sheet, provide the source of the subsequent rein step in the subsequent reproductive isolation of a species. Geological changes to the lake b

Example: Geological changes to the late basins has been naturated in the proliferation of could final species in the filt lates of East Africa (East Grand, Similary, many and the species of East Africa (East, Similary, Many and species) (East, Similary, Basin, Similary, Basin and Sangard, Stistica (Francis, Similary, Basin) and Sangard, Stistica (Francis, Similary, Basin, Similary, Basin, Similary, Simi

Temporal isolation

temporal leasance means teolated in tense, and 6 prevents backed instructional prevailable of the section at all of the section of the section at the section at the section at the section at a section at the section at highly or in different seasons. Temporal isolation means isolated in time, and it pr

Example: Closely related animal species may have differ Example: Closely related animal species may have different interbreding. The periodic of emergence to prevent an orchiter example of this. Periodical cleans are found in a variantly example of this. Periodical cleans are found in a livenings, emerging to complete their development and the species of the species and some have and mate. To prevent intertureeding, the various species spend either 13 of ty years underground developing. Emergence of a sing time interture disk, the various species spend at the same time to breed. the same time to breed.

Behavioral Isolation

In many species, courtuin behaviours are a measury probable to successful maining. These exhaurours may include dance, card, displays, or the presentation of gifts. The suppose are very balance of the same species that measure that rates of the same species maining the behaviour but members of other species maining the behaviour balance of other species of the same species of balance of the same species of the behaviour balance of the same species of the behaviour balance of the same species of the behaviours. In many species, courtship behaviours are a pay attention to the behaviours.

Birds exhibit a wide range of courtship displays. The use of song is widespread but ritualized movements, including nest building, are also common.

Examples: Galápagos frigatebirds have an elaborate Examples: Galapagos migateuros have an eautora display in which they inflate a bright red throat poi to attract a mate. Frogs have species-specific call

HE MANNAN

VVVV#1#

Adaptive

5. Identify th

6. Explain y

7. Name t



BIOZONE WORLD revolutionizes science education with an immersive learning experience. Explore the IB 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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3D Models



Curated Videos



Presentation Slides



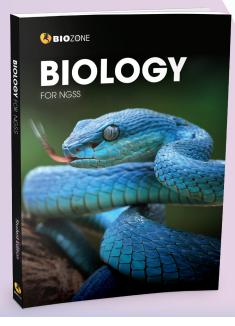


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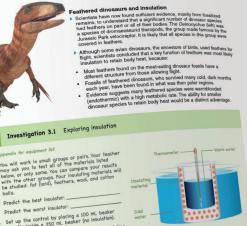
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- 45°C) into both 100 mL beakers then place each set-up into se thermometer into each of the 100 mL beakers. You may need a Roating and tipping over. Start a stop watch and record the need to tape or Pour warm water (approx. 45°C) into both 100 mi loed water (above). Place a thermometer into eas beakers down to stop them floating and tipping two minutes for 20 minutes in the table below. 100 mL beaker.





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LEXILE Score: 1046 - 1230 (Grade 9)





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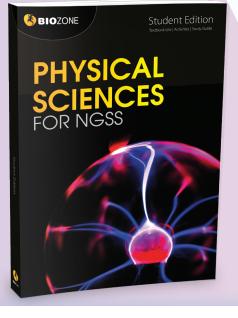


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Through completion of these activities, students build a sound understanding of science and engineering practices, recognize and understand the concepts that link all domains of science, and build the knowledge base required to integrate the three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

LEXILE Score: 977 grade 7



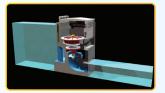


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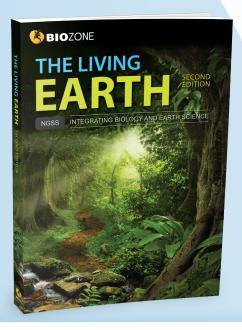


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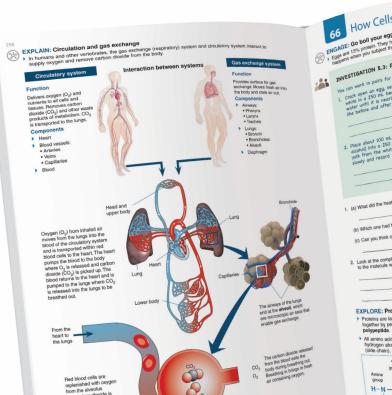
The Living Earth Student Edition

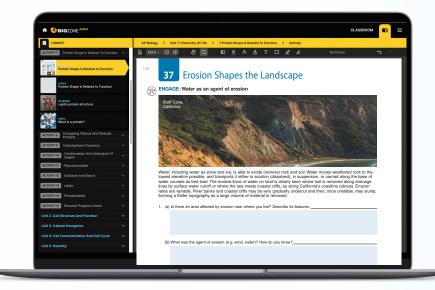
The Living Earth has been designed and written following the High school Three-Course Model for California. It will also suit NGSS-aligned states integrating Earth Science with Biology. This phenomenon-based title takes a three-dimensional approach and emphasizes student inquiry to provide an engaging,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

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LEXILE Score: 1050 - 1240 grade 8-9

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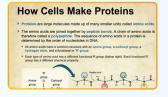


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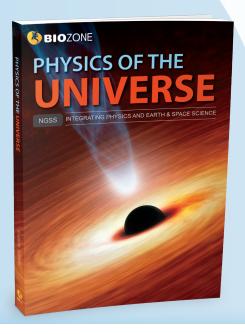


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LEXILE Score: 1000 grade 7-8

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Start Your Engines ANCHORING PHENOMENON: Race cars are designed for high speed cornering Compare a standard domen rance of the cars (much of which is related to func Clearly there are important differences in the appearan which car could travel the fastest around a tight bend? Notice also the angle (camber) of the race car's wheels. Why are they angled outwards at the bottom? Ho this affect its ability to corner? Notice all the wings around the car on the right, what do they do? It has been shown in simulations that a formula 1 car would be able to drive upside down along a tunnel wh moving a top speed. How is this possible? 1. What keeps both the cars above pressed down on the road? The car on the left has a mass of about 1,100 kg and a engine output of about 177 kilowath. The car on mass of about 760 kg with an engine output of about 710 kilowaths. How will this affect the acceleration of Wings produce down force. Why would this be useful to a race car? 4. The car on the left produces a lot of drag. How would this affect its ability to accelera The diagram below shows a rear view of a domestic car (left) and a race car (right). Each car is making a tight left lum at very high speed.

Motion

0	
(a)	_
_	
_	
(b)	
_	
(c) —	

	-	
2.	The image	below



(e) Draw



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The Formation of a Nebula

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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: 956 grade 7

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Over the course of this activity we have studied various sets of data that can now be used to produce a gemodel of the internal structure of the Earth. EXPLAIN: The internal structure of the Earth

- We can interpret Mohorovicic's data as representing a fairly shallow boundary between two layers of the Earth, From the eartier seismic data we have determined here is another much deeper boundary between lawar. This leads us to believe there are at least three layers in the Earth, one of which is liquid. Other more relim budies have led scientists to build a model of the Earth as shown below.

Crust: Between 5 and 70 km thick, Density about 3 g cm3. Divided into approximately 16 large plate The boundary between the crust and the upper mantle produces the Mohorovicle discontinuity.

Upper mantle: Solid layer about 400 km thick with a transition layer between the upper and lower mant of about 300 km. The temperature about 300 km. The te

Lower mantle: Approximatel 2000 km thick, extending to about 3000 km below the about 3000 km below the surface. Like the upper mantle it is solid but behaves like a viscous liquid with convection currents slowly moving the mantle about.

Inner core: Solid. The temperature at the core is between 5500°C and 6000°C. The core is made of mostly iron and nickel and is about 1200 km in diameter. The density of the core is about 12 g cm³.

Outer core: Liquid. The movement of the outer core produces acts like a dynamo. an electric generator and produces Earth's magnetic field. Made mostly of iron and reaches 4000°C.

24. Identify whether each of the following is liquid or solid

(c) Inner core

Energy D

EXPLORE: Patterns





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