



SCIENCE RESOURCES GRADES 9-12

About BIOZONE

Inspiring better outcomes for our planet through science education.

BIOZONE has more than 30 years' experience in the development of engaging and effective resources for science teaching and learning.

Our resources are unlike any you've seen before, and a departure from the traditional basal textbook paradigm. We take a 'worktext' approach, combining the very best features of a traditional textbook with an interactive workbook. The resulting hybrid provides well designed, compact lessons that engage students and provide a rigorous, yet accessible, program of work

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

BIOZONE is renowned for its engaging presentation of content with a strong visual appeal.

Our expert writers bring science to life through the use of real-world examples in both content and assessment. We continually revise and improve on our resources to ensure they remain current and relevant to your needs. Part of this process is engaging with you, as teachers, and valuing your feedback.

By their innovative design, our resources encourage student interaction, using simple investigations and data analysis to engage students in the science around them. Innovative strategies to encourage critical thinking and problem-solving help your students develop the 21st-century skills they need to succeed.

Pictured: The Milky Way from Lake Tekapo in New Zealand Image by Graham Holtshausen on Unsplash Cover Image: Indonesian Pit Viper Trimeresurus Insularis Photo by Kuritafsheen from Adobe Stock

Our Writing Team



Jill Mellanby MLIS; BSC(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 programme 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.

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Integrated NGSS

The Living Earth	
Physics of the Universe	
Chemistry in the Earth System	

Standard NGSS

Biology for NGSS
Earth and Space Sciences for NGSS Student Edition27
Physical Sciences for NGSS29

Elective / International Titles

Anatomy and Physiology	
IB Biology	

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Modular eBooks

eBook LITE: Modular Titles



Pictured: Barn Owl Tyto alba Photo by Bob Brewer on Unsplash

What's NEW at BIOZONE

The team at BIOZONE are excited to announce the latest additions to our catalog. We have developed some creative solutions to assist teachers in the classroom and beyond.



AP[®] Biology (2021 Edition)

BIOZONE's AP® Biology emphasizes the application of knowledge to understanding and analyzing new problems. Its datadriven approach and highly visual format encourage students to engage fully with the principles, ideas, and methodologies

required to understand the natural world. See page 15 for more details.

What's Coming?

Biology for NGSS

BIOZONE's third edition of Biology for NGSS builds on an already successful format. Student engagement is enhanced through the use of full color diagrams and increased opportunities for practical activities. See page 25 for more details





Earth and Space Sciences for NGSS

BIOZONE's second edition of Earth & Space Sciences for NGSS will be in full color. Numerous hands-on activities allow students to explore the NGSS content in a fresh and engaging way. See page 27 for more details.

Love our products and purchase them every year?

We can offer your school discounted prices for multi-year purchases when purchased directly through BIOZONE. Contact us for more details sales@thebiozone.com



Teacher Toolkit

BIOZONE's Teacher Toolkit is a suite of products designed to support and boost the delivery of your program, while enhancing student engagement. The resources integrate seamlessly into your teacher workflow, and their flexibility allows them to be customized for meaningful delivery within an integrated classroom.

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. www.theBIOZONE.com/contactus

WHAT OUR TEACHER TOOLKIT INCLUDES:

Teacher's Edition (Print)



Teacher's Edition (eBook)



Question Library

RTF or QTI

Testbank

RTF or QTI



Chemistry in the Earth System

Presentation Slides

Digital Teacher's Editions



Display and hide answers on-screen using the digital versions of the workbooks.

*License: A class set is 20+ copies of the printed Student Edition. This product is Digital Rights Managed.

Adobe Acrobat Reader is required

Full conditions can be viewed at: www.thebiozone.com/faqconditionsofuse

Our Digital Teacher's Editions are available as a digital download and are an ideal teaching companion to the corresponding workbooks and are discounted when purchasing a class set* of the student book.

Display the pages on an interactive whiteboard just as they appear in the students' own print version of the books. Use the display to introduce the activity, focus the students on the relevant information, and streamline review and feedback.

KEY FEATURES

- Ideally suited for use with an interactive whiteboard, although they will also work with a digital projector.
- The digital versions of the Student Workbooks and Model Answers are **non-printable PDF files**.
- Display answers on-screen: reveal single and multiple-part answers with the click of a button.
- Excel[®] spreadsheets are provided for all activities in the books containing data sets.

AVAILABLE TITLES

- AP Biology (2021)
- AP Environmental Science
- Earth and Space Sciences for NGSS (2016)
- Biology for NGSS (2016)
- Physical Sciences for NGSS
- Chemistry in the Earth System
- Physics of the Universe
- The Living Earth
- IB Biology
- CIE Biology 1
- CIE Biology 2
- Senior Biology 1
- Senior Biology 2

Resource Hub

The Resource Hub is a curated library of links to third-party online resources such as **video clips, simulations**, and original source material (teacher reference). Additional material includes access to interactive **BIOZONE 3D models** and fully **editable spreadsheets** to support some data modelling activities.

To access **BIOZONE**'s Resource Hub, find the appropriate link in the front of your book.



Find out more: **BIOZONE** hub.com



Presentation Slides

Previously known as Presentation Media. Available as a digital download.

Our Presentation Slides provide an exciting collection of **PowerPoint / Keynote** files that **can be used for a lecture-style presentation through video conferencing or in class**.

The download contains **fully-editable** slide show presentations to enhance your lessons.



Why Does Biodiversity Matter?

Although they must often seem abundant to us, insect populations globally are in trouble.

More than 40% of insect species are declining and a third are endangered.

Just as concerning as this loss of diversity is the loss of insect biomass, which is falling by an estimated 2.5% a year.

The cascading effect of insect loss threatens food chains globally. The causes are many and cumulative and include **climate change**, use of **pesticides**, and **habitat loss**. AVAILABLE TITLES

- 1. Genes and Inheritance
- 2. Evolution
- 3. Human Evolution
- 4. Ecology
- 5. Cell Biology and Biochemistry
- 6. Health and Disease
- 7. Environmental Science
- 8. Anatomy and Physiology
- 9. AP[®] Environmental Science
- 10. AP® Biology (Available Mid-2022)
- 11. Chemistry in the Earth System
- 12. Physics of the Universe
- 13. The Living Earth
- 14. Physical Sciences for NGSS
- 15. Biology for NGSS
- 16. Earth and Space Sciences for NGSS _____
- 17. IB Biology



Example: Physical Sciences

Example: AP® Environmental Science

Example: Earth and Space Sciences

Losing the Ice

Presentation Slide Bundles

A cost-effective way to purchase BIOZONE's Presentation Slide titles comprising thousands of slides of information.

	Genetics and Evolution Bundle (3 Titles)	Super Bundle (6 Titles)	The Complete Collection Bundle (All 8 Titles)
Titles Included (see numbering left)	1-3	1-6	1-8
Number of slides	872	2188	4013
Genes & Inheritance	${ \oslash }$	${\boldsymbol{ \oslash}}$	\otimes
Evolution	${}^{\oslash}$	\otimes	\otimes
Human Evolution	\otimes	\otimes	\otimes
Ecology		${}^{\oslash}$	\otimes
Cell Biology & Biochemistry		${\boldsymbol{ \oslash}}$	\otimes
Health & Disease		\otimes	\otimes
Environmental Science			\otimes
Anatomy & Physiology			\otimes

Download Price List www.theBIOZONE.com/price-list

What people are saying about our products...

"I am loving these texts and the way that they facilitate learning for students!"

– Matt, Remington USD

"Andy (my colleague) and I were looking through the content online yesterday and were blown away! It matches the CED of AP Bio so well! You guys did a great job."

- Mark, Rockwood Summit High School

"My students find the examples very interesting and relevant. They are often different than the classic examples we are used to seeing. They find success with the methodology that BIOZONE is built on, with the focus on collaboration and building understanding."

- Cindi, Teacher

"Great resource for teachers, convenient to prepare simple and effective lessons. Excellent graphics and quality"

- Cornelia, AP Environmental Science Teacher

The Many Benefits of BIOZONE's Resources

A departure from the traditional basal textbook paradigm, instead taking a 'worktext' approach. Students write their answers directly into the book, thereby forming a 'record of work'.

Compact lessons engage students in learning and provide a rigorous, yet accessible, program of work.

Engaging presentation of content with visually appealing, high quality photographs, and explanatory illustrations.

Activities encourage student interaction and inquiry through simple 'hands-on' opportunities, real-world case studies, and data analysis.

Resource suites are self-contained; there is no requirement for additional purchases or expensive kits.

Titles are available in both print and digital formats.

BIOZONE's resources offer a cost effective solution for all budgets.

We continually revise and improve our resources to ensure they remain current and relevant to your needs.

Our expert writers bring science to life through the use of everyday, real-life examples in both content and assessment.

Remote Learning

BIOZONE understands how hard it has been for you and your students to teach and learn remotely. Poor access to broadband, extra support, and learners being left behind are some of the current concerns of remote teaching.



Print

Students write their answers directly into the spaces provided in their BIOZONE print book - forming an important 'Record of Work'. If the teacher wants to grade or review student work remotely, students may be asked to write their answers into the school's own LMS. A great solution for no, or limited, broadband access.

eBooks

BIOZONE's eBooks provide the same content as the print books, with ready-made lessons in a digital format. The text-to-speech functionality assists teachers who have neurally diverse students. Our eBooks function on both tablets and computers.



CHEMISTRY IN THE EARTH SYSTEM

Hybrid Solutions

In a virtual classroom, it's difficult to monitor students who need extra support. Use a combination of both print and digital versions of the same BIOZONE book to provide your students with a rich and varied learning experience.

eBook LITE

Affordable Option

This version of our eBooks provides a low-cost solution for district budgets that are under pressure. eBook LITE provides an excellent addition to the print book for those looking for a low-cost digital option. See the full function list in the comparison table on page 11.



L1 (m)

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0.16

0.14

(b) Using the equation λ = 4L (where λ is the way value for L1. This formula works if only one v column labeled λ L1. Do this for all your freq (c) A second formula using both L1 and L2 can wavelength and enter it into the table in the c

(d) We know from earlier that there is a relations decreases. This means frequency (f) and wa proportional and will produce a straight line of

(e) Plot frequency (Hz) vs 1/λ on the grid below.

446

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625

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answering online feature is missing. In its place are the suggested answers provided by the publisher.

Designed to replicate our printed Teachers' Editions in a digital format. Teachers' eBooks are compatible with both eBook LITE and PLUS Student Editions.

eBook PLUS

Full-Feature Option

This full-featured version of our eBooks provides all the functions of the eBook LITE version, PLUS the interactive components and student answering online. Student answers may form a 'record of work' and vou may choose to grade a selection of activities. See the full function list in the Comparison Table on page 5.





Get the BIOZONE eBooks Reader App

Our eBook Reader App allows each eBook to be downloaded to the device for offline access (minimize bandwidth required at home). However, interactive elements, such as questions and homework, still require internet connection to function.

Our eBooks Reader App is available for use on tablets and desktop/laptop computers.



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Compare BIOZONE's eBook Licenses

NEW Personal Licenses

Forget minimum quantities! Get instant access to eBook LITE with a Personal License

	School Managed Licenses		Personal Licenses		
	eBook LITE	eBook PLUS	eBook Teacher's Edition	eBook LITE	
Assignable Student Work:	Homework, custo assessments	om questions, an	d custom	100 A.	
Grading and Reporting:	Grading and exportable performance reports available				
Roster Management:	Integrations available for ClassLink, Clever, and OneRoster. Manual process through a .csv upload is also available		· · · ·		
Single Sign-On Integrations:	ClassLink and Clever			100 A.	
Learning Management System Integrations:	Any Learning Mar LTI connection	nagement System	1 through		
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Offline Access:	Downloadable content through the Downloadable content throug BIOZONE Reader App BIOZONE Reader App		Downloadable content through the BIOZONE Reader App		
User Types:	School Managed Student, Teacher, and Admin users Self		Self-Managed Individual Users		
Technical Support:	In-App Knowledge Base and Technical Support		In-App Knowledge Base and Technical Support		
Minimum Order:	Must be purchased as a class set (at least 20)		st 20) Purchased Individually		
How to Purchase:	Contact our sales	team at: sales@tl	nebiozone.com	Purchase from: store.biozone.com/us	

FREE 30 day trial of our School Managed eBooks

With our 30 day FREE trials you get to try out all available school-managed eBooks for your selected title. You can compare our eBook PLUS, LITE, and Teachers' Edition eBooks (if they are available for purchase).

Compare BIOZONE's eBooks

	School Managed Licenses			Personal Licenses
	eBook LITE	eBook PLUS	eBook Teacher's Edition	eBook LITE
Embedded Publisher Questions: Students can answer questions online	- e -	✓		
Additional Teacher & Student Offline Resources: Activities that require graphing, drawing, model making, Offline PDFs, and spreadsheets		~		
Embedded Resource Hub: Links to YouTube videos, web links, spreadsheets, 3D models, & online simulations	- e -	✓	~	
Answers in Place: See all of the suggested answers for each activity	•		×	
User Notes, Drawing and Mark-up Tools	~	~	×	~
Disability Support: Read Aloud (Text-to-Speech)* English only	~	~	*	~
Selected Text: Colour highlight, dictionary definition, access Google search, access Wikipedia lookup	~	~	~	×

Need Technical Support?

BIOZONE offers several methods of support to help guide you through the eBooks platform

Knowledge Base

Check out our Knowledge Base with articles, short video tutorials and FAQ that you can use to quickly answer any questions and troubleshoot your issues.

bookshelp.thebiozone.com

Training Platform

We created a set of videos designed for first-time users that will walk you through the eBooks platform and its features.

thebiozone.com/ebooks/training

Technical Support

Our helpful IT support team are always happy to help with your queries. We supply dedicated support and reply within 24 hours.

support@thebiozone.com

BIOZONE World

We have listened and are improving the way teachers deliver our material, and how students consume it...



Be one of the first users of BIOZONE World during the next school year (2022–2023)*

With your support and your ongoing feedback, we will be putting teachers' needs at the forefront of the many new innovations we are developing within **BIOZONE World**.

As the first users of **BIOZONE World** during the next school year, you will be the pioneers of the latest EdTech platform that has been developed for teachers, by teachers.

*Not all features listed will be available immediately, however users will gain access automatically as we develop the platform.

Register your interest: the **BIOZONE**.com /world

Everything in one place

New innovative digital platform based on teacher & student feedback.





Digital Formats

eBook LITE

eBook PLUS

Teacher Support Material

Teacher's Edition (eBook)
 Teacher's Edition (Print)
 Digital Teacher's Edition (Download)

- Digital Teacher's Edition (Download)
- Classroom Guide (Download)

Student Support Material

Resource Hub

Download Price List www.theBIOZONE.com/price-list

AP[®] Biology Student Edition

BIOZONE's new title for AP® Biology is the third edition of this popular resource. Now in full color and one comprehensive volume, it has been completely revised to address 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.

BIOZONE's AP[®] Biology emphasizes the application of knowledge to understanding and analyzing new problems. It follows the CED's structure, providing an easily-navigable program that comprehensively addresses the two essential components of the course framework: science practices and course content. Its datadriven approach and highly visual format encourage students to engage fully with the principles, ideas, and methodologies required to understand the natural world.

Features

- Chapter introductions provide a summary of required content and skills, encapsulating the essential knowledge statements.
- · Key questions provide the focus for each activity.
- Student Support for Investigations: Activities providing support for specific aspects of each of the 13 investigations are integrated in context throughout.
- The big ideas and science practices spiral across topics and units.
- Through inquiry and data analysis, students develop enduring understanding of key concepts in biology and an appreciation for the role of science in solving modern-day problems.
- Concept and science practice codes help students make important connections across the whole program.
- Personal Progress Checks (at the conclusion of each of the 8 units) provide opportunity for formative assessment and prepare students for their AP[®] exam.
- * ALL prices exclude sales tax and shipping.
- ** Discount pricing is for purchases of over 20 copies of a single title directly from BIOZONE.

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.

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Comparing Fibrous and Globular Proteins

8

AD BIOLOGY







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talented students. The hub provides links to spreadsheets, and video clips. You also gain access to our collection of 3D models.

FREE for purchasers





Digital Formats

eBook LITE

eBook PLUS

Teacher Support Material

Teacher's Edition (eBook)



17

Teacher's Edition (Print)

- Classroom Guide (Download)
- Digital Teacher's Edition (Download)
- Presentation Slides (Download)

Student Support Material

Resource Hub

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Find out more: the **BIOZONE**.com /APES

AP[®] Environmental Science Student Edition

BIOZONE's new AP Environmental Science is a dedicated title to address the new APES 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. Uses 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. This easily navigated resource addresses the two essential components of the course framework: science practices and course content. Its interdisciplinary approach and highly visual format encourage students to engage fully with the principles, ideas, and methodologies required to understand the natural world.

Features

- Chapter introductions provide a summary of required content, encapsulating the essential knowledge statements matched point for point.
- · Key questions provide the focus for each activity.
- Student inquiry is supported through simple hands-on investigations (lab and field based).
- The big ideas and science practices spiral across topics and units.
- Through current case studies, students identify and analyze natural and human-made environmental problems and evaluate solutions.
- Concept and science practice codes help students make important connections across the whole program.
- **Personal Progress Checks** provide opportunity for formative assessment and prepare students for their AP exam.
- ALL prices exclude sales tax and shipping.
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Wildfires 167



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FREE for purchasers



time O



Environmental Science

Suitable for elective courses. See theBIOZONE.com/ENS

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14 The Carbon Cycle

ing of timestone by acid rain a of carbon from the marine food chain (c) Mining and burning of coal (d) Burning of plant material

the processes that release carbon into the



Digital Formats

- eBook LITE
- eBook PLUS

Teacher Support Material

- Classroom Guide (Download)
 - Teacher's Edition (Print)
- Teacher's Edition (eBook)
 - Digital Teacher's Edition (Download)
 - Presentation Slides (Download)

Student Support Material

Resource Hub

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Find out more: the **BIOZONE**.com/TLE2

The Living Earth Student Edition 2nd 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.

Departing from the more traditional approach of **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.

Features

- A **phenomenon-based approach** employing the **5E instructional cycle**, aligning with how students learn science.
- **Six Instructional Segments** provide the book's structure, enabling seamless navigation through the program. A reference chapter provides support for science and engineering practices.
- Full integration of the three dimensions of the CA NGSS enables students to deepen understanding of Disciplinary Core Ideas through their use of Science and Engineering Practices and application of Crosscutting Concepts.
- Activities provide multiple opportunities for students to use first-hand experience to explain phenomena and develop engineering solutions to solve relevant problems.
- Formative and summative assessments address all three dimensions.
- Proficiency in mathematics and computational thinking are strongly supported.
- The California Environmental Principles and Concepts are incorporated throughout.
- Understandings about the **Nature of Science** are supported through the Science and **Engineering Practices** and **Crosscutting Concepts**.
- Online learning supported through BIOZONE's resource hub, featuring videos, spreadsheet models, weblinks, and 3D models. Online courses also available through BIOZONE Academy.
- ALL prices exclude sales tax and shipping.
- ** Discount pricing is for purchases of over 20 copies of a single title directly from BIOZONE.

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.





Digital Formats

CODOON LITE

eBook PLUS

Teacher Support Material

- Classroom Guide (Download)
 - Teacher's Edition (Print)
- Teacher's Edition (eBook)
 - Digital Teacher's Edition (Download)
 - Presentation Slides (Download)

Student Support Material

Resource Hub

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Find out more: the **BIOZONE**.com/POU1

Physics of the Universe Student Edition

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.

Departing from the more traditional approach of **BIOZONE**'s Non-Integrated Series, the Integrated Series offers a learning experience based on the 5 Es and anchored in student-relevant phenomena and problems.

Features

- A **phenomenon-based approach** employing the **5E instructional cycle**, aligning with how students learn science.
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Digital Formats

	eBook	LITE
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eBook PLUS

Teacher Support Material

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 - Teacher's Edition (Print)
- Teacher's Edition (eBook)
 - Digital Teacher's Edition (Download)
 - Presentation Slides (Download)

Student Support Material

Resource Hub

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Find out more: the **BIOZONE**.com /CES1

Chemistry in the Earth System Student Edition

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

Departing from the more traditional approach of **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.

Features

- A **phenomenon-based approach** employing the **5E instructional cycle**, aligning with how students learn science.
- **Six Instructional Segments** provide the book's structure, enabling seamless navigation through the program. A reference chapter provides support for science and engineering practices.
- Full integration of the three dimensions of the CA NGSS enables students to deepen understanding of Disciplinary Core Ideas through their use of Science and Engineering Practices and application of Crosscutting Concepts.
- Activities provide multiple opportunities for students to use first-hand experience to explain phenomena and develop engineering solutions to solve relevant problems.
- Formative and summative assessments address all three dimensions.
- Proficiency in mathematics and computational thinking are strongly supported.
- The California Environmental Principles and Concepts are incorporated throughout.
- Understandings about the **Nature of Science** are supported through the Science and **Engineering Practices** and **Crosscutting Concepts**.
- Online learning supported through **BIOZONE's** resource hub, featuring videos, spreadsheet models, weblinks, and 3D models. Online courses also available through **BIOZONE Academy.**
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Digital Formats

eBook PLUS

Teacher Support Material



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



- Digital Teacher's Edition (Download)
- Presentation Slides (Download)

Student Support Material

Resource Hub

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Find out more: the **BIOZONE**.com /NBI3

Biology for NGSS Student Edition

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.

BIOZONE Supports Teachers!

We understand the challenges of delivering NGSS within a **differentiated classroom**. BIOZONE's **Teacher Toolkit** is a suite of meaningful delivery and assessment tools empowering teachers to deliver NGSS to students of all abilities. Use the Teacher Toolkit to plan lessons, enhance content delivery, engage students and deliver assessments.

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Features include: full color, updated content, increased number of practical investigations, equipment list, enhanced teacher coding.

Coming soon: Pacing guide, Spanish glossary



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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.

Benefits

The Disciplinary Core Ideas (DCIs) provide the structural framework for the book, dividing it into four sections. Each chapter comprises a range of activities designed and sequenced to scaffold learning using a 5Es instructional approach. Specific performance expectations are identified and addressed within each chapter and assessed through specific activities including, but not restricted to, specifically designed, three-dimensional summative assessments.

Science and Engineering Practices are fully integrated throughout with activities to develop skills in practical investigation, collaboration, analyzing and interpreting data, developing and using models, and constructing explanations from evidence. A supporting introductory chapter acts as a reference and provides students with additional opportunities to practice the mathematical and inquiry-based skills required at this level.

Crosscutting concepts are fully integrated and identified throughout, allowing students to make connections between the core themes in science across different topics.

Nature of Science: Students develop an understanding of the nature of science through incorporation of its basic principles into activities. The teacher's edition provides teacher guidance on this aspect.

Engineering Design: The Engineering Design component of NGSS has been incorporated as appropriate through activities that engage the student in designing and evaluating solutions to real world problems. This aspect of the standards provides an exciting opportunity for students to apply their knowledge in a creative way, with due consideration to social and environmental concerns.

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Standard NGSS (Next Generation Science Standards)



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