ALPHA SCIENCE

ALPHA PUBLISHING

Alpha Science

Grade 1–5 Brochure

Welcome to Alpha Publishing

Alpha Publishing believes that children and adults have the right to a quality education. Continuous learning is the best means of improving the lives of individuals and enhancing the standards and quality of our communities.

Our mission is to provide educational materials and courses across Africa, Asia, the Middle East and Latin America that meet international standards while also reflecting and incorporating the cultures and traditions of the region.

Our dedicated publishing teams are mindful of the different types of learners who come from various national and cultural backgrounds; therefore, our publishing strategy is driven by the motto: "**We are in the Region, for the Region.**" We pay the utmost attention to the delivery of globally recognized and culturally appropriate content and innovative teaching tools not just in our books but through **eAlpha**, our digital CLMS platform.

Lifelong Learning

We make constant endeavors to bring global experience, expertise, and best practices to what we publish, while bearing in mind the region's current and future learning and teaching requirements.

Innovative and Futuristic

We ensure that all of our products are based on the latest research in education and make the mission of international standards a reality. We are committed to delivering both traditional print and innovative, interactive online educational experiences.

Latest Technology

We put great stock in the importance of technology to produce cutting-edge programs and courses for the educational transformation of the community.

Results-Oriented

At Alpha, we know that enhancing teaching and learning outcomes is a key element for measurable impacts.

Publishing Excellence

We guarantee that what we publish is reliable and trustworthy, both globally and regionally.

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Alpha Science

Grades 1-5

- American English
- Video Clips
- Online Reporting
- Online Resources
- Interactive Content
- Alpha + PhET Sims

Alpha Science has four volumes each based on one of four NGSS domains: Science, Engineering & Technology; Life Science; Earth & Space Science; and Physical Science. Teachers can select the order in which they teach the domains. Each NGSS domain has its color-coded volume with vibrant visuals. Each lesson contains three practices that move from the Directed Practice (teacher guided) to the Guided Practice (a bit more student driven) to the Full Practice (fully student-driven learning). At the end of each lesson, students will have a deep understanding of the lesson's objective and content.

Key Features

- **Based on Next Generation Science Standards**
- **Consumable Student Book & Practice Book**
- **NGSS performance expectations are presented through activities throughout the lessons**
- **Scaffolded STEAM activity after every chapter**
- **Differentiated ELL activities**
- **Each lesson is based on the 5E Instructional Model**
- **ExamView assessment generator for creating, assigning, and scoring tests, quizzes, and more**
- **Available both online and offline on eAlpha, your dynamic and interactive Learning Management System**
- **NEW - Alpha + PhET Sims from the University of Colorado Boulder's PhET Simulations. PhET Sims are based on extensive education research and engage students through an intuitive environment where they will learn through exploration and discovery.**

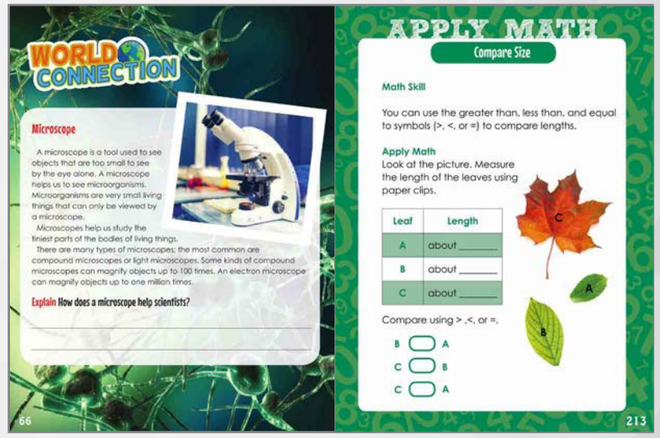
eALPHA Mobile eLearning Platform

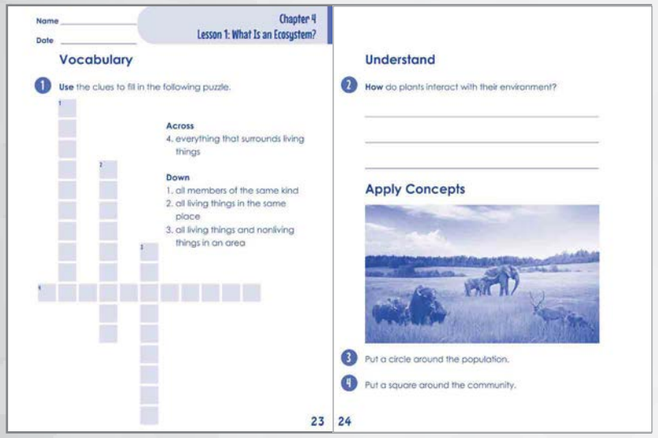
ExamView® ASSESSMENT SUITE

TURNING technologies EXAMVIEW® LEARNING SERIES

Student Book

Each NGSS domain based book has its color-coded volume with vibrant visuals. The books contain clearly structured chapters and lessons that integrate the best science practices, crosscutting concepts and disciplinary core ideas, key connections, and applied math.



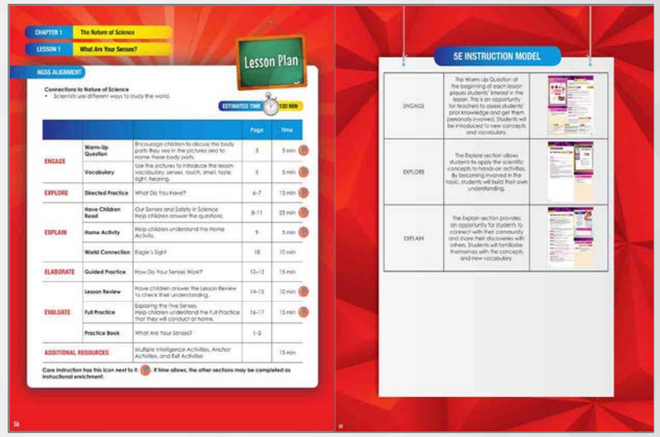


Practice Book

Check the students' understanding of what they have learned and whether they can apply it in practice.

Teacher Guide

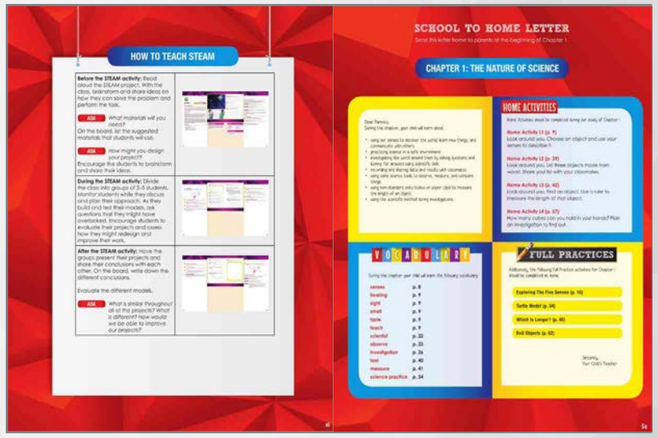
The comprehensive Teacher Guide contains reference materials, such as the 5E Instructional Model, Scaffolded Practice Guide, STEAM teaching guide, detailed Scope and Sequence, Yearly Plan, Materials List and the alignment to NGSS.

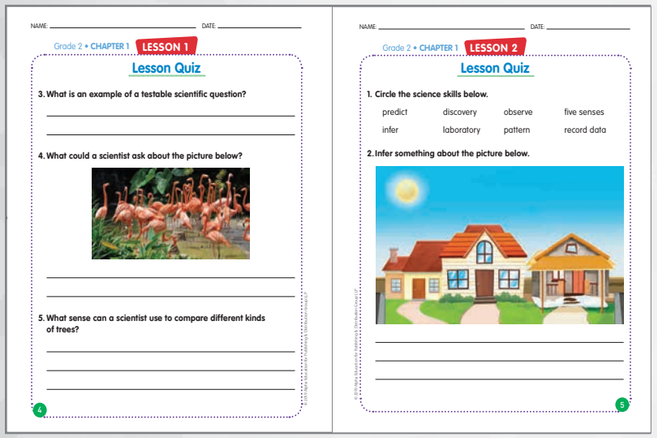


Alpha Science

The Teacher Resources sections outline all Student Book and Practice Book Activities, including Assessments, ELL references and the use of online resources.

The School to Home Letter provides a snapshot of what the students will be learning in the upcoming chapter and extends the learning environment through encouraging parental involvement.





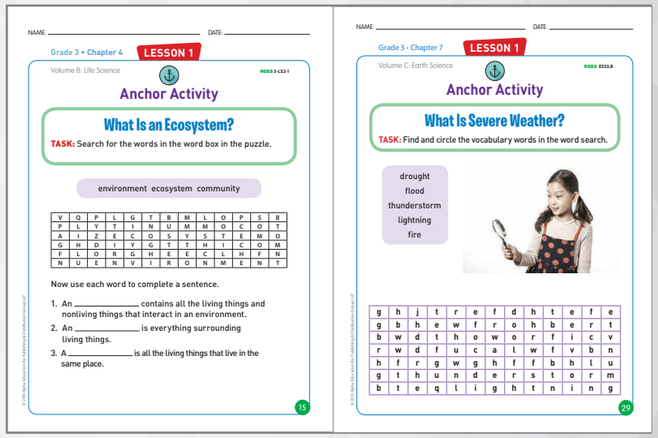
Ancillaries

Assessment Book

The Assessment Book is designed to support the NGSS vision of accurately measuring three-dimensional science learning. It contains a comprehensive set of summative assessments that provide the teacher with a complete picture of student progress.

Anchor Activities

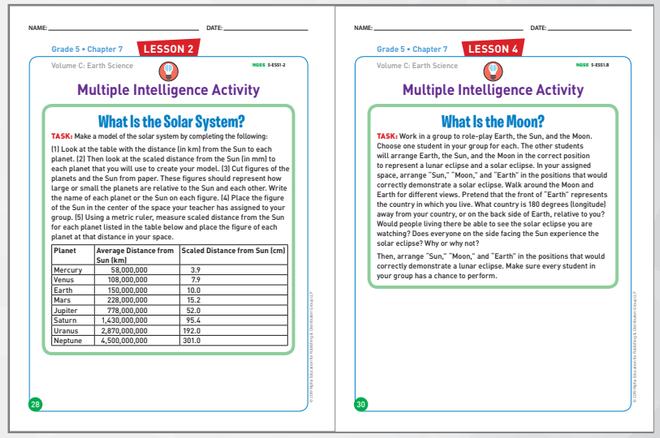
Anchor Activities provide a quick and engaging way to get students focused and prime them for the lesson. Students can be given the activities to work on at the beginning of class as soon as they are ready to learn. The activities will help to gauge student readiness for the lesson and can be used as a differentiation tool.

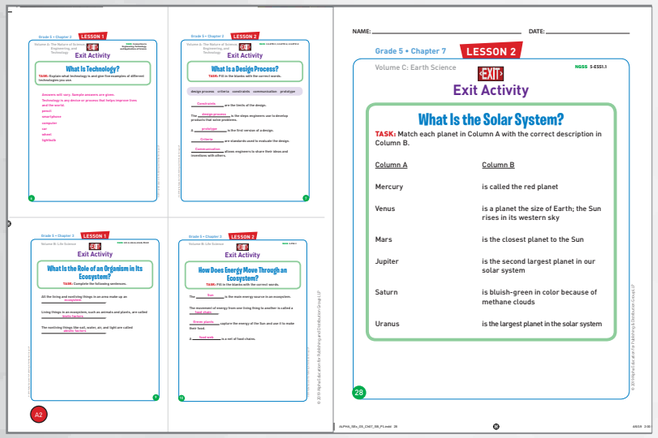


NGSS Science

Multiple Intelligence Activities

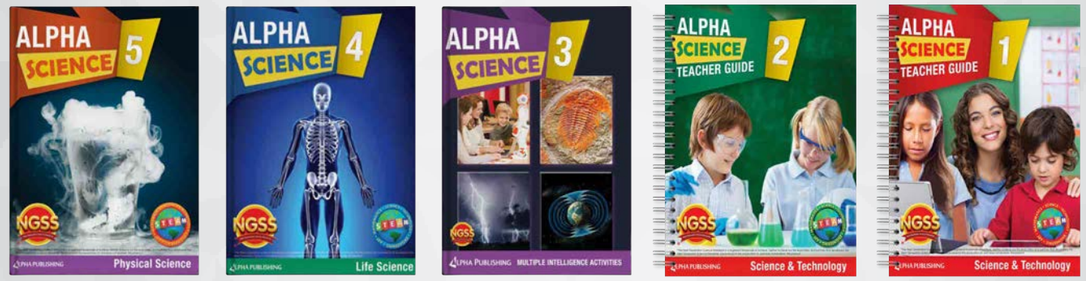
Multiple Intelligence Activities focus on the main science concepts of the lesson and aim to help students with different abilities and learning styles engage in the learning process. Each activity hits at least one of the eight different types of intelligence outlined by Howard Gardner's Theory of 8 Multiple Intelligences. By the end of the chapter, all intelligences will have been stimulated.





Exit Activities

Exit Activities are used as informal assessments at the end of each class or activity that help the teacher gauge students' understanding of concepts covered during the lesson.



Alpha Science

Science Domains

Science, Technology, and Engineering

Students will come to understand how engineering problems are identified and solved through the use of technology and how this impacts our society and the environment. They will learn about the interdependency of the science and engineering fields and how technology expands the reach of both. Two core ideas will be studied: the engineering design process and the links between and within engineering, science, technology, and society.

Life Science

Through observing, questioning, testing, and analyzing data, students will come to understand the relationships, processes, and patterns amongst living organisms. An understanding of how plants and animals interact with the living and nonliving factors in their environments will be reached. Four core ideas will be studied: structure and processes, ecosystems, heredity, and biodiversity and unity.

Earth Science

The study of the biosphere and space beyond Earth involves reaching an understanding of how the systems in, on, and around our planet are interconnected. Students will study the cause-and-effect relationships among these systems and energy and matter cycles. The three core ideas that will be studied include: Earth's place in the universe, change in Earth's conditions and systems over time, and human impact on Earth.

Physical Science

Students will learn that there are cause-and-effect exchanges in all systems and processes in our world. These exchanges are based on a common set of chemical and physical principles. Four core ideas will be studied: matter and its interactions, motion and forces, energy, and waves.

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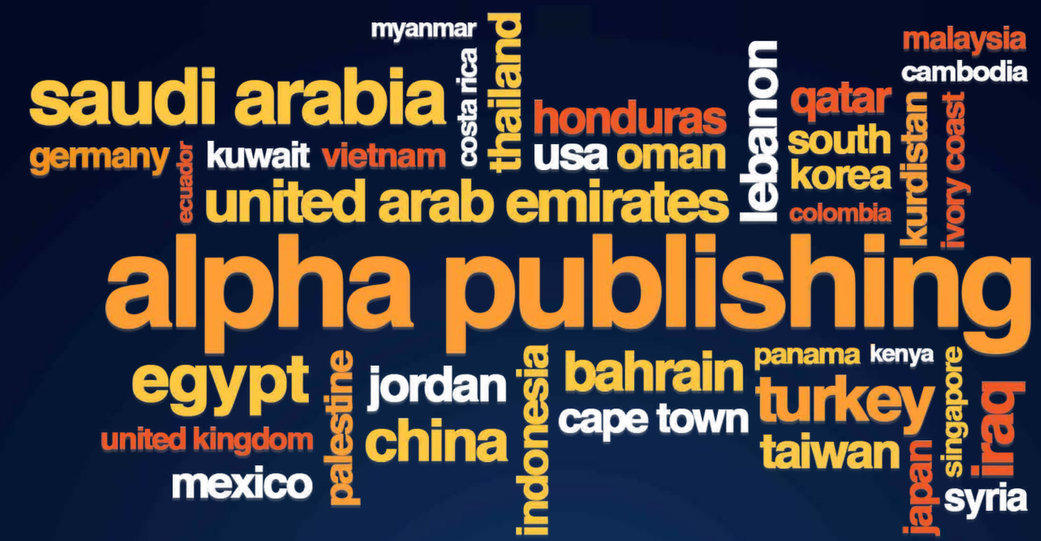
Pursuit of innovation

We are in the Region, for the Region



Professional Development & Product Training

Providing ongoing professional development for educators is one of the most critical success factors for better learning and teaching outcomes.

Alpha Publishing, in partnership with KDSL Global and a selection of independent trainers, provides specifically tailored program training and practice sessions, along with leadership and school management courses, for teachers and institutions, via distance learning or at site events.

For more information about professional development and product training please visit **www.alphapublishing.com** or call +971 4 391 8658.

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