

# Teaching with Questions

Guide students through scientific reasoning and questioning using the Socratic method. Science 5 builds on the foundations of previous years while equipping students to apply science to life through observation and analytics. Firmly embracing a biblical worldview and young earth model, *Science 5* covers life science, physical science, and earth science with the goal of building inquiry skills and growing science vocabulary and understanding.

## How We Teach It

### Effective Questioning

This inquiry-based program teaches students to develop effective scientific questions and design experiments to answer those questions. Each lesson starts with an essential question for pre-reading and lesson framing.

### Guided Discovery

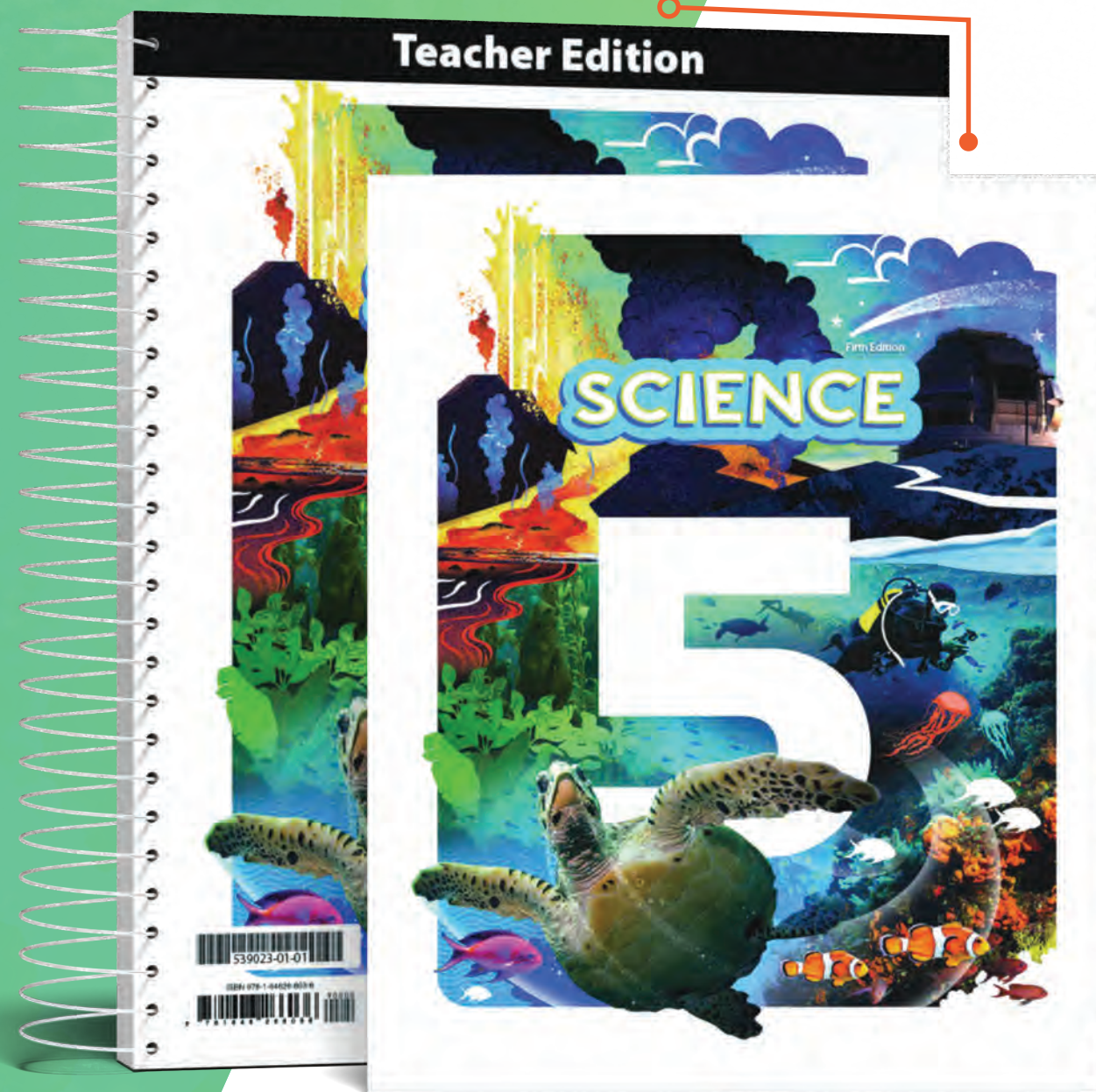
Through group or individual exploration activities, Science 5 encourages students to inquire about and discover science concepts through guided demonstrations, object lessons, videos, and hands-on experiments.

### Scaffolded Instruction

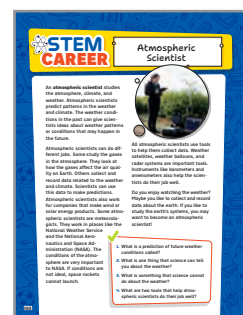
This program systematically scaffolds instruction from foundational to advanced scientific concepts using the teaching cycle of engage, instruct, apply, and assess. Students participate in group discussions, analyze visuals, and work with graphic organizers to gain new knowledge.

### Varied Application

Varied opportunities to apply learning include investigations, STEM activities, communication activities, inference, hypothesizing, modeling, and experimentation. A focus on real-life applications ties science concepts into everyday experiences.



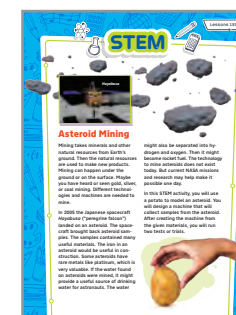
STEM Career



Try it Yourself



STEM Activities



## Materials

### Student Edition

The student edition has been updated with increased and improved visuals including art, infographics, diagrams, and photographs. It uses a combination of visual elements and text to teach concepts in all three main fields of science: including life, physical, and earth. A strong focus on the scientific method and real-world problems connects science to students' daily lives. Career feature boxes highlight STEM careers, while Try It Yourself boxes encourage hands-on learning and exploration. The student edition also includes Science and Medicine, Science and Technology, and Misconceptions feature boxes to highlight additional areas of science.

### Teacher Edition

The teacher edition embraces the teaching cycle as a structure for each lesson. Starting with an essential question, chapter-level objectives, and lesson plan overview, each lesson guides teachers through learning activities. Differentiated instruction activities and notes are placed in strategic locations to help teachers meet the needs of each student. New to this edition, a Biblical Worldview Scope and Sequence helps teachers weave biblical worldview themes into their lessons. The teacher edition also links to videos and PowerPoint presentations to aid student learning.

### Activities

The activities book provides hands-on learning opportunities including experiments, communication activities, and laboratory activities. All are easy to perform in the classroom and focus on teaching key skills including inquiry, interpreting data, and communicating findings. An answer key is included.

### Assessments

The assessment packet includes 15 tests, one per chapter, as well as one quiz per student edition study guide. It also includes an answer key and rubrics for evaluating activities and projects.