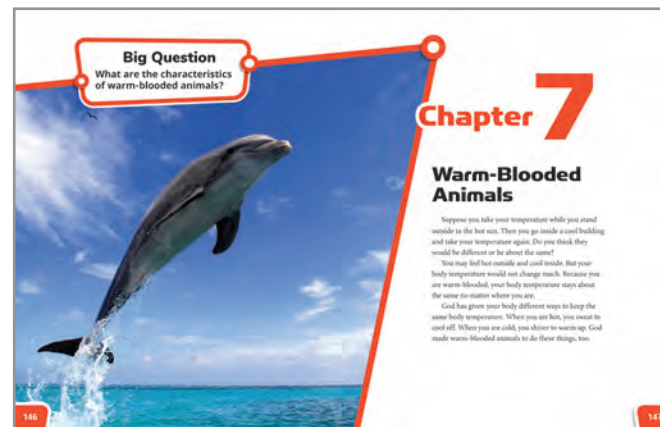


Problem Solving with Purpose

Show your students the purpose of science by helping them learn how to solve problems in an orderly way. This course explores space and biology, and the physical, earth, and life sciences. Students will learn to apply science knowledge, science processes, and critical-thinking skills to projects and experiments.

Materials



Student Edition and Teacher Edition

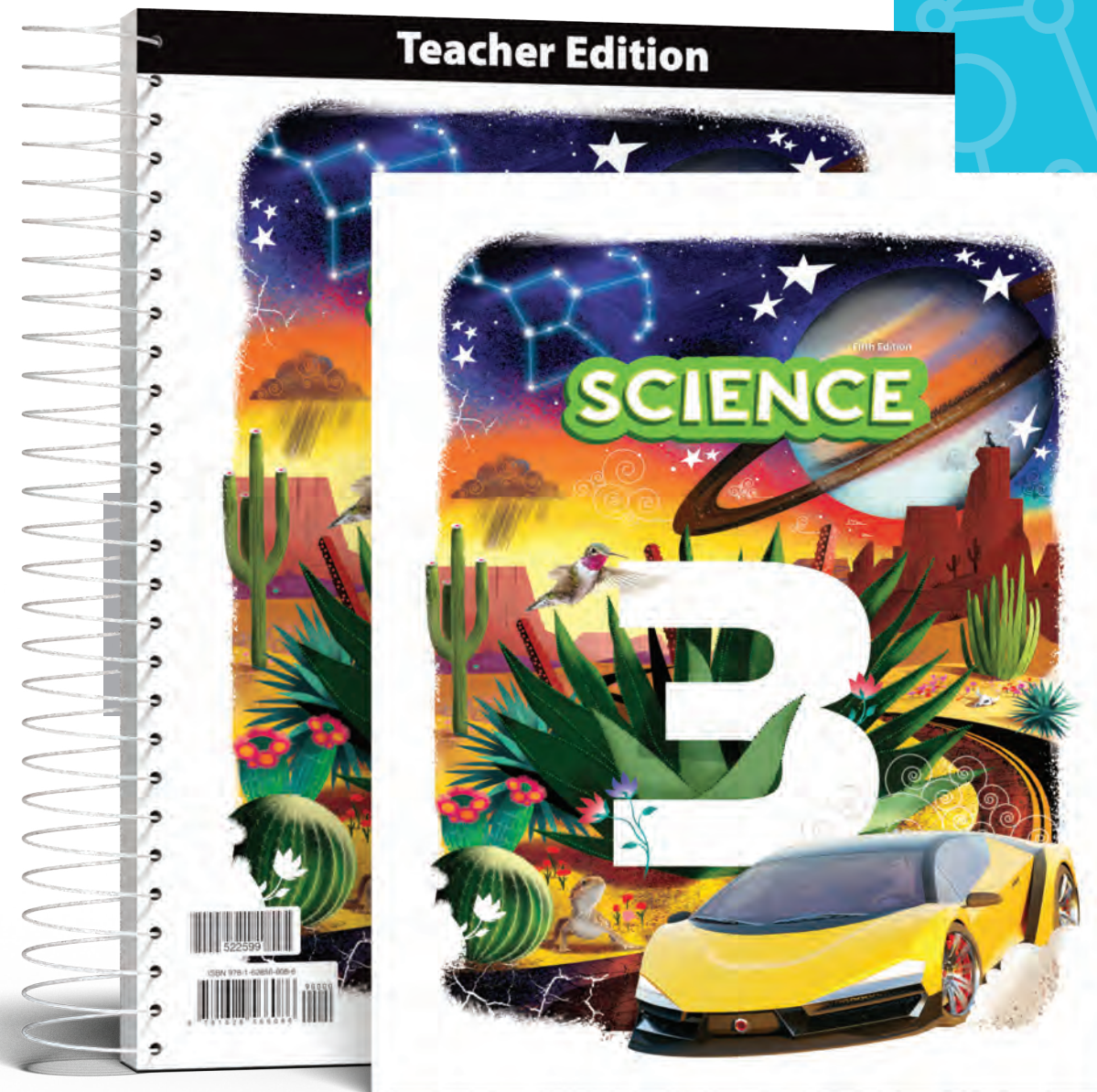
The student edition will help students develop familiarity with reading informational texts and will introduce scientific information at an age-appropriate level. Reading sections end with Quick Check questions that help students with self-assessment. The teacher edition offers teaching notes, answers, and additional resources for guiding discovery- and inquiry-based learning activities. Additional teaching resources include instructional aids, visuals, and tips for differentiated instruction.

Activities and Assessments

The activities offer students opportunities to gain an understanding of the concepts being taught in lessons through experience. Investigation, inquiry, exploration, and STEM activities reinforce and explore the topics discussed.

Assessments include tailored rubrics for STEM activities, investigations, and explorations.

Activities answer keys and assessments answer keys are also available.



STEM Career Pages



Graphic Organizers



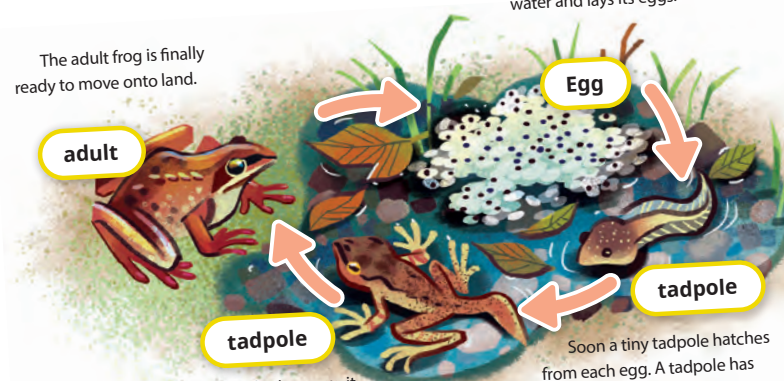
How We Teach It

- Effective questioning strategies encourage discussion and assess understanding. Students will need to consider how to formulate a biblical worldview of science and how to use science to glorify God and help others.
- Learning activities introduce students to STEM, experimentation, and project- and problem-based learning, which give students an opportunity to apply the engineering design process as well as foundational science inquiry skills to develop orderly approaches to problem solving.
- Guided discovery and inquiry-based learning opportunities encourage skill development as students use their natural curiosity to explore the world and to confront problems.
- Graphic organizers and exciting visuals engage learners and support understanding as they learn how to use skills in visual analysis and read information from visuals.

A Way to Reproduce

God designed frogs and other amphibians to grow in a special way. They change form as they grow. When an animal changes form as it grows, scientists call this **metamorphosis**.

The adult frog is finally ready to move onto land.



Stages of Amphibian Metamorphosis

The first stage is when an adult frog finds a safe place in water and lays its eggs.

As the tadpole grows, it changes. It loses its gills and forms lungs. It also loses its tail and grows legs.

Soon a tiny tadpole hatches from each egg. A tadpole has gills to breathe and a tail to swim. It does not look like an adult frog.

Fantastic Facts

The poison dart frog does not lay its eggs in the water. Instead it lays eggs on dead leaves. After the tadpoles hatch, they wiggle onto the male frog's back. The male frog carries the tadpoles to water.

