NEW

Science 3

COMPARISON CHART

The Science 3 5th edition materials incorporate best practices and standards from the Next Generation Science Standards as well as customer requests. Because of the many new features added, the 5th edition materials are not compatible with 4th edition materials.

5th Edition

4th Edition

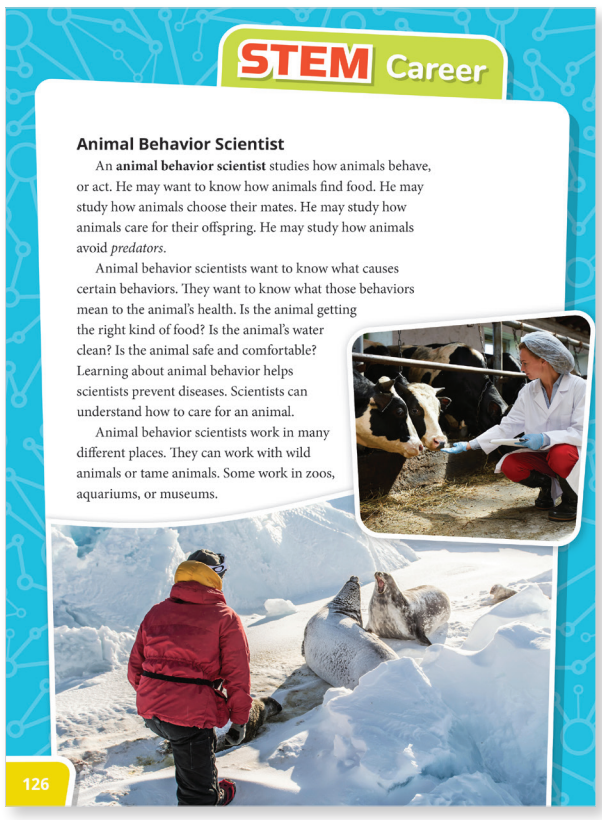
Basic Features

Student Edition Page Numbers	290	247
Chapters	11	12
Science Standards Used	NGSS	NSES

Scope & Sequence Updates

- Earth science topics added:
  - The solar system: solar system (origin, worldviews, gravity, patterns, the sun and other stars, observing stars and planets), inner planets and moon (Mercury, Venus, Earth and Moon, Mars) outer planets (Jupiter, Saturn, Uranus, Neptune)
  - Soil: erosion, conservation
  - Minerals: properties of (hardness, crystal shape, color)
  - Fossils: biblical view (how and when fossils formed, extinction, adaptation), evolutionary view (how and when fossils formed, extinction, adaptation), is evolution true?
  - Weather and climate: studying weather, severe weather (drought, flood, thunderstorm), climate zones (polar, temperate, tropical), climate change (biblical view, different views, possible causes, God's promise)
- Life science topics added:
  - Plants: life cycle (germination, growth, reproduction, death), plant traits, adaptation (biblical view, evolutionary view)
  - Cold-blooded animals: classifying animals (vertebrate, temperature), insects, spiders (characteristics, features to survive and grow, ways to reproduce), life cycles of cold-blooded animals
  - Warm-blooded animals: characteristics, features to survive and grow, ways to reproduce, are humans mammals?, taking care of animals, life cycles of animals (birth, growth, reproduction, death), animals and their offspring (same kind, inherited traits and behavior), studying animals
  - Ecosystems: living together in groups
- Physical science topics added:
  - Matter and sound: audiologist
  - Forces and motion: Force (fast, slow, direction, kinds [contact/noncontact forces]); motion (directions, distance, speed, how force affects motion [balanced and unbalanced forces, equations of balanced and unbalanced forces], patterns of motion (observations, predictions, unseen patterns, created patterns)
  - Electricity and magnetism: Electric charges (positive, negative, neutral), static electricity, current electricity, magnets (magnetism, magnetic field, poles), uses of magnets, electromagnets (discovering electromagnets, uses of electromagnets)
  - Removed chapter 12 and added much of the information to chapter 4.
  - Added STEM activities, careers, and lessons throughout.
  - Added inquiry lessons to two Investigations.
  - Expanded or deleted information in many chapters as needed.

Textbook Snapshot


STEM Career

Animal Behavior Scientist

An **animal behavior scientist** studies how animals behave, or act. He may want to know how animals find food. He may study how animals choose their mates. He may study how animals care for their offspring. He may study how animals avoid *predators*.

Animal behavior scientists want to know what causes certain behaviors. They want to know what those behaviors mean to the animal's health. Is the animal getting the right kind of food? Is the animal's water clean? Is the animal safe and comfortable? Learning about animal behavior helps scientists prevent diseases. Scientists can understand how to care for an animal.

Animal behavior scientists work in many different places. They can work with wild animals or tame animals. Some work in zoos, aquariums, or museums.

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New Features

- Added explanations of biblical worldview themes and a biblical worldview scope and sequence to the teacher edition.
- Added academic rigor spread to the teacher edition.
- Added chapters to three units ("Let's Explore Matter and Motion," "Let's Explore Earth and Space," and "Let's Explore Living Things").
- Added Big Questions at the start of each chapter.
- Renamed Activities to Investigations.
- Included procedures for Investigations and Explorations in the activities book only, not in the student edition.
- Added rubrics tailored for each STEM activity to the assessments packet.
- Moved rubrics for all activities from the CD content to the assessments. (The 5th edition has no CD.)
- Expanded Student Index and Glossary to include all bold vocabulary terms, and italicized important words.