

Scope and Sequence

Truth in Science - Science Criteria for Content (Breakdown by Grade Level and Unit)

Grades 3-4		Grades 5-6
Life	Science as a human endeavor Science as inquiry The characteristics of organisms Life cycles of organisms Types of resources Organisms and environments Changes in environments Characteristics and changes in populations	Science as a human endeavor Nature of science Science as inquiry Structure and function in living systems Reproduction and heredity Regulation and behavior Populations and ecosystems Diversity and adaptations of organisms Populations, resources, and environments
Earth	Types of resources Changes in environments Changes in earth and sky Properties of earth materials Objects in the sky	Populations, resources, and environments Natural hazards Structure of the earth's system Earth's history Earth in the solar system
Physical	Understanding about science and technology Abilities of technological design Distinguish between natural and man-made objects Science and technology in local challenges	Abilities of technological design Understanding about science and technology Science and technology in society

Grade 5 - Science Standards for Content (Breakdown by Chapter)

Chapter 1 - Worldview		Science Criteria Content
<ul style="list-style-type: none"> • Introduce Worldview • What is Viewpoint? • What is Worldview? • What is Evolution? 	<ul style="list-style-type: none"> • Contrasting Worldviews—Creation and Evolution • Compromising Beliefs About Evolution and Creation • What is the Scientific Method? • Dinosaur Scavenger Hunt 	Science as a human endeavor Nature of science Science as inquiry
Chapter 2 - Classification		
<ul style="list-style-type: none"> • Introduce Classification • Alphabet Zoo • Classification • Process of Classifying Vertebrates 	<ul style="list-style-type: none"> • Process of Classifying Invertebrates • Process of Classifying Plants • How are They Alike and Different? • Classification Everyday 	Nature of science Science as inquiry Structure and function in living systems Reproduction and heredity
Chapter 3 - Plants		
<ul style="list-style-type: none"> • Introduce Plants • What are a Flower's Parts? • Leaves of a Plant • Stems and Roots 	<ul style="list-style-type: none"> • Plant Reproduction • How Plants Grow • What Color is a Leaf? • Flower Power 	The characteristics of organisms Life cycles of organisms Organisms and environments
Chapter 4 - Cells		
<ul style="list-style-type: none"> • Introduce Cells • Cells In Your Body • Inside a Cell • Cells Work Together 	<ul style="list-style-type: none"> • Cells Work Together • Organs Work Together • Species Change • Why Are Cells So Small? • Cell Model 	Science as inquiry Structure and function of living systems Reproduction and heredity

Chapter 5 - Ecology

- Introduce Ecology
- Environment's Effects
- Ecosystems
- Biomes of the World

- Living Together and Energy
- Cycles
- What Does an Owl Eat?
- Biomes

Science as a human endeavor
Structure and function in living systems
Regulation and behavior
Populations and ecosystems
Diversity and adaptations of organisms
Populations, resources, and environments
Understanding about science and technology

Chapter 6 - Meteorology

- Introduce Meteorology
- Cooling Water
- Oceans and Fresh Water
- Water Cycle and Clouds

- Air Movements and Masses
- Climate
- Salt Water and Fresh Water
- Monitoring the Weather

Science as inquiry
Natural hazards
Structure of the earth's systems
Abilities of technological design
Understanding about science and technology
Science and technology in society

Chapter 7 - Geology

- Introduce Geology
- Dissolving Carbonates
- Structure of the Earth
- Minerals and Rocks

- Weathering and Erosion
- Earthquakes and Volcanoes
- How is an Earthquake Measured?
- Soil Formation

Nature of science
Science as inquiry
Natural hazards
Structure of earth's systems

Earth's history
Understanding about science and technology

Chapter 8 - Earth's Resources

- Introduce Earth's Resources
- Absorbing Solar Energy
- Nonrenewable Energy
- Other Energy Resources

- Conserving Resources
- Technology In Our Lives
- How Can I Reuse Materials?
- Spice Maps

Science as a human endeavor
Populations and ecosystems
Populations, resources, and environments
Structure of earth's systems

Earth's history
Abilities of technological design
Science and technology in society

Chapter 9 - Astronomy

- Introduce Astronomy
- Sun Affecting Temperatures
- Stars and Galaxies
- Earth's Movements

- Parts of the Solar System
- The Moon and its Movement
- How Can I Tell Time?
- Nebula Picture Book

Science as inquiry
Earth in the solar system
Abilities of technological design
Understanding about science and technology

Chapter 10 - Matter

- Introduce Matter
- Changing Phases
- Describing Matter
- Measuring Matter

- Physical Changes
- Chemical Changes
- Salty Water?
- Atomic 3-D

Science as inquiry
Structure and function in living systems
Structure of the earth's system

Chapter 11 - Forces and Energy

- Introduce Forces and Energy
- Bending Light
- Force and Motion
- Electricity and Magnetism

- Kinetic and Potential Energy
- Nuclear and Sound Energy
- Do Force and Mass Affect Motion?
- Relative Gravity and Weight

Science as inquiry
Structure and function in living systems
Natural hazards
Structure of the earth's systems