

interactive SCIENCE

National Table of Contents Grade K

Unit A Physical Science

Ch 1 The Nature of Science

- Lesson 1 What questions can you ask?
- Lesson 2 How do you observe?
- Lesson 3 How do you learn together?
- Lesson 4 How do you share what you learn?
- Lesson 5 What do you use to observe?
- Lesson 6 How do you stay safe?

Ch 2 Solve Problems

- Lesson 1 What problems can you solve?
- Lesson 2 How can you make a plan?
- Lesson 3 How can you share your ideas with others?

Ch 3 Objects

- Lesson 1 What are your five senses?
- Lesson 2 What are objects made of?
- Lesson 3 What can you tell about objects?
- Lesson 4 How can you sort objects?
- Lesson 5 How can you use objects?
- Lesson 6 How is sound made?

Ch 4 Matter

- Lesson 1 What is a mixture?
- Lesson 2 What are solids?
- Lesson 3 What are liquids?
- Lesson 4 What are gases?
- Lesson 5 How can water change?

Chapter 5 Motion

Lesson 1 What can you tell about an object's position?

Lesson 2 What makes objects move?

Lesson 3 What are some ways objects move?

Lesson 4 What are magnets?

Unit B Earth and Space Science

Ch 6 Earth and Sky

Lesson 1 What makes up Earth?

Lesson 2 How does the sun seem to move?

Lesson 3 What can you see in the day sky?

Lesson 4 What can you see in the night sky?

Lesson 5 What are some kinds of weather?

Lesson 6 What are the seasons?

Unit C Life Science

Ch 7 Living and Nonliving Things

Lesson 1 What are nonliving things?

Lesson 2 What are living things?)

Lesson 3 What do living things need?

Lesson 4 How are animals alike and different?

Lesson 5 How are plants alike and different?

Ch 8 Plants and Animals

Lesson 1 How are young animals like their parents?

Lesson 2 How do animals change?

Lesson 3 How do plants change?

Lesson 4 How do people change?

Lesson 5 What are some plants and animals that live on land?

Lesson 6 What are some plants and animals that live in water?

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National Table of Contents Grade 1

Unit A Science, Engineering, and Technology

Chapter 1 Inquiry

- Lesson 1 What questions do scientists ask?
- Lesson 2 What skills do scientists use?
- Lesson 3 How do scientists use tools?
- Lesson 4 How do scientists find answers?
- Lesson 5 How do scientists share data?

Chapter 2 The Design Process

- Lesson 1 What is technology?
- Lesson 2 What are materials made from?
- Lesson 3 What is the design process?

Unit B Life Science

Chapter 3 Living Things and Their Environments

- Lesson 1 What are nonliving and living things?
- Lesson 2 What do living things need?
- Lesson 3 How do plants and animals live in land environments?
- Lesson 4 How do plants and animals live in water environments?
- Lesson 5 What plants and animals no longer live on Earth?

Chapter 4 Plants and Animals

- Lesson 1 What are some groups of living things?
- Lesson 2 What are some parts of plants?
- Lesson 3 How do some plants grow?
- Lesson 4 How do some animals grow?
- Lesson 5 How are plants and animals like their parents?
- Lesson 6 How are groups of living things different?

Unit C Earth Science

Chapter 5 Earth and Sky

- Lesson 1 What is on Earth?
- Lesson 2 What are rocks and soil?
- Lesson 3 What changes land?
- Lesson 4 How do people use natural resources?
- Lesson 5 What is the sun?
- Lesson 6 What causes day and night?

Chapter 6 Weather

- Lesson 1 What is the water cycle?
- Lesson 2 What is weather?
- Lesson 3 How can you measure weather?
- Lesson 4 What are the four seasons?

Unit D Physical Science

Chapter 7 Matter

- Lesson 1 What is matter?
- Lesson 2 What are solids, liquids, and gases?
- Lesson 3 How can you change matter?
- Lesson 4 What is a mixture?

Chapter 8 Energy

- Lesson 1 How do we use energy?
- Lesson 2 What gives off heat?
- Lesson 3 What is light?
- Lesson 4 What is sound?

Chapter 9 Movement

- Lesson 1 How can objects move?
- Lesson 2 What is a force?
- Lesson 3 What is a magnet?
- Lesson 4 What is gravity?

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National Table of Contents Grade 2

A. SCIENCE, ENGINEERING, AND TECHNOLOGY

Chapter 1 The Nature of Science

- Lesson 1 What questions do scientists ask?
- Lesson 2 What kinds of skills do scientists use?
- Lesson 3 How do scientists use tools and stay safe?
- Lesson 4 How do scientists find answers?
- Lesson 5 How do scientists collect and share data?

Chapter 2 Technology and Tools

- Lesson 1 What is technology?
- Lesson 2 How do people design new things?
- Lesson 3 How do we use tools and machines?

B. LIFE SCIENCE

Chapter 3 Plants and Animals

- Lesson 1 What are some kinds of animals?
- Lesson 2 What are some parts of animals?
- Lesson 3 What are the parts of plants?
- Lesson 4 Where do plants and animals live?
- Lesson 5 How do living things get food?
- Lesson 6 What is a fossil?

Chapter 4 Growing and Changing

- Lesson 1 What is the life cycle of a butterfly?
- Lesson 2 What is the life cycle of a frog?
- Lesson 3 What is the life cycle of a mouse?
- Lesson 4 What is the life cycle of a plant?
- Lesson 5 How are living things like their parents?
- Lesson 6 What do some of your body parts do?

C. EARTH SCIENCE

Chapter 5 Earth's Materials

- Lesson 1 What are natural resources?
- Lesson 2 What are rocks and minerals?
- Lesson 3 What is soil?
- Lesson 4 What are some kinds of land and water?
- Lesson 5 How can people help protect Earth?

Chapter 6 The Solar System

- Lesson 1 What is the sun?
- Lesson 2 What are the moon and stars?
- Lesson 3 What is the solar system?

Chapter 7 Weather

- Lesson 1 How can you describe weather?
- Lesson 2 How can you measure weather?
- Lesson 3 How does weather change?
- Lesson 4 How can you stay safe in severe weather?

D. PHYSICAL SCIENCE

Chapter 8 Matter

- Lesson 1 What are some properties of matter?
- Lesson 2 What are solids, liquids, and gases?
- Lesson 3 What are some ways matter can change?
- Lesson 4 How can water change?

Chapter 9 Energy, Motion, and Force

- Lesson 1 What are some kinds of energy?
- Lesson 2 What is sound?
- Lesson 3 What are motion and force?
- Lesson 4 What are magnets?
- Lesson 5 What is gravity?

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National Table of Contents Grade 3

A. SCIENCE, ENGINEERING, AND TECHNOLOGY

Chapter 1 Inquiry and Technology Science

- Lesson 1 What questions do scientists ask?
- Lesson 2 What skills do scientists use?
- Lesson 3 How do scientists answer questions?
- Lesson 4 How do scientists communicate?
- Lesson 5 How do scientists use tools and stay safe?

Chapter 2 Technology and the Design Process

- Lesson 1 What is technology?
- Lesson 2 What is a machine?
- Lesson 3 What is the design process?

B. LIFE SCIENCE

Chapter 3 Plants

- Lesson 1 How can you classify plants?
- Lesson 2 How do plants use sunlight to make food?
- Lesson 3 How do plants use roots and stems to grow?
- Lesson 4 How do plants use flowers and cones to reproduce?
- Lesson 5 What are the life cycles of some plants?

Chapter 4 Living Things

- Lesson 1 How can you classify animals?
- Lesson 2 How are offspring like their parents?
- Lesson 3 What are the life cycles of some animals?

Chapter 5 Ecosystems

- Lesson 1 What is an ecosystem?
- Lesson 2 How do living things get energy?
- Lesson 3 How do ecosystems change?

C. EARTH SCIENCE

Chapter 6 Earth and Weather

- Lesson 1 What is the water cycle?
- Lesson 2 How can we measure and predict weather?
- Lesson 3 What are rocks and minerals?
- Lesson 4 What is soil?
- Lesson 5 How do we describe features of Earth's surface?
- Lesson 6 What are weathering and erosion?

Chapter 7 Earth and Our Universe

- Lesson 1 What is a star?
- Lesson 2 What do you know about our solar system?
- Lesson 3 What are Earth's patterns?
- Lesson 4 What is known about the moon?

D. PHYSICAL SCIENCE

Chapter 8 Matter

- Lesson 1 What is matter?
- Lesson 2 What are the states of matter?
- Lesson 3 How is matter measured?

Chapter 9 Energy and Its Forms

- Lesson 1 What are some forms of energy?
- Lesson 2 How does energy change form?
- Lesson 3 What are heat and light energy?
- Lesson 4 How do light and matter interact?
- Lesson 5 What is sound energy?
- Lesson 6 What is electrical energy?

Chapter 10 Force

- Lesson 1 What is motion?
- Lesson 2 What is gravity?
- Lesson 3 How does force affect motion?

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National Table of Contents Grade 4

A. SCIENCE, ENGINEERING, AND TECHNOLOGY

Chapter 1 The Nature of Science

- Lesson 1 What questions do scientists ask?
- Lesson 2 How do scientists use tools?
- Lesson 3 How do scientists answer questions?
- Lesson 4 How do scientists draw conclusions?

Chapter 2 Technology and Design

- Lesson 1 What is technology?
- Lesson 2 What is the design process?

B. LIFE SCIENCE

Chapter 3 Plants and Animals

- Lesson 1 How are plants and animals classified?
- Lesson 2 What structures help plants survive?
- Lesson 3 How do plants make food?
- Lesson 4 What structures help animals survive?
- Lesson 5 What plant and animal characteristics are inherited?
- Lesson 6 How do animals respond to the environment?

Chapter 4 Ecosystems

- Lesson 1 What are ecosystems?
- Lesson 2 How do living things get energy?
- Lesson 3 What are food chains and food webs?
- Lesson 4 How do living things affect the environment?
- Lesson 5 What are fossils?
- Lesson 6 What can fossils tell us?

C. EARTH SCIENCE

Chapter 5 Earth's Resources

- Lesson 1 How are minerals classified?
- Lesson 2 How are rocks classified?
- Lesson 3 What is weathering and erosion?
- Lesson 4 How can Earth's surface change rapidly?
- Lesson 5 Where is Earth's water?
- Lesson 6 What is the water cycle?

Chapter 6 Earth and Space

- Lesson 1 How does Earth move?
- Lesson 2 How do star patterns change?
- Lesson 3 What are the phases of the moon?
- Lesson 4 What is the solar system?

D. PHYSICAL SCIENCE

Chapter 7 Matter

- Lesson 1 What are properties of matter?
- Lesson 2 How is matter measured?
- Lesson 3 What are the phases of matter?
- Lesson 4 What are mixtures?
- Lesson 5 How does matter change?

Chapter 8 Energy and Heat

- Lesson 1 What are the forms of energy?
- Lesson 2 What is sound energy?
- Lesson 3 What is light energy?
- Lesson 4 What is heat?

Chapter 9 Electricity and Magnetism

- Lesson 1 What is electricity?
- Lesson 2 How do electric charges flow in a circuit?
- Lesson 3 How does electricity transfer energy?
- Lesson 4 What is magnetism?
- Lesson 5 How are electricity and magnetism transformed?

Chapter 10 Motion

- Lesson 1 What is motion?
- Lesson 2 What is speed?

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National Table of Contents Grade 5

A. Science, Engineering, and Technology

Chapter 1 Inquiry and Technology

Lesson 1 What do scientists do?

Lesson 2 How do scientists investigate?

Lesson 3 How do scientists collect and interpret data?

Lesson 4 How do scientists support their conclusions?

Chapter 2 Design and Function

Lesson 1 What is technology?

Lesson 2 How can technology mimic the human body?

Lesson 3 What is the design process?

B. Life Science

Chapter 3 Classifying Organisms

Lesson 1 How do we classify living things?

Lesson 2 How do we classify animals?

Lesson 3 How do we classify plants?

Chapter 4 Growth and Survival

Lesson 1 What are some physical structures in living things?

Lesson 2 How do adaptations help plants?

Lesson 3 How do adaptations help animals?

Lesson 4 What are the life cycles of some animals?

Chapter 5 Human Body Systems

Lesson 1 What is the circulatory system?

Lesson 2 What is the respiratory system?

Lesson 3 What are the skeletal and muscular systems?

Lesson 4 What is the nervous system?

Lesson 5 What are some other systems?

Chapter 6 Ecosystems

- Lesson 1 What are the parts of an ecosystem?
- Lesson 2 How do organisms interact in ecosystems?
- Lesson 3 How do ecosystems change?
- Lesson 4 How do humans impact ecosystems?

C. Earth Science

Chapter 7 The Water Cycle and Weather (opener—insect with water droplets)

- Lesson 1 What is the water cycle?
- Lesson 2 What are oceans?
- Lesson 3 What is weather?
- Lesson 4 How do clouds and precipitation form?
- Lesson 5 What is climate?

Chapter 8 Earth's Surface

- Lesson 1 What are minerals?
- Lesson 2 What are rocks?
- Lesson 3 What makes up soil?
- Lesson 4 What is erosion and deposition?
- Lesson 5 How does Earth's surface change?
- Lesson 6 What are some energy resources?
- Lesson 7 What is pollution?

Chapter 9 Earth and Space

- Lesson 1 How does Earth move?
- Lesson 2 What is a star?
- Lesson 3 What are the inner planets?
- Lesson 4 What are the outer planets?
- Lesson 5 What are asteroids, meteors, comets, and moons?

D. Physical Science

Chapter 10 Matter and Its Properties

- Lesson 1 What makes up matter?
- Lesson 2 What are properties of matter?
- Lesson 3 What are solids, liquids, and gases?
- Lesson 4 What are mixtures and solutions?
- Lesson 5 How does matter change?

Chapter 11 Forces and Motion

- Lesson 1 What are forces?
- Lesson 2 What are Newton's Laws of Motion?
- Lesson 3 What are simple machines?

Chapter 12 Changing Forms of Energy

- Lesson 1 What is energy?
- Lesson 2 What is sound energy?
- Lesson 3 What is light energy?