

# Macmillan/McGraw-Hill Science: A Closer Look

## Grade 1

**Be a Scientist Lesson 1: Science Skills**

**The Scientific Method Lesson 2: Science Methods**

## Life Science

### UNIT A – Plants

**Unit Opener Spread**

**Unit Literature (Ranger Rick: Insect-Eating Plants)**

### Chapter 1 – Plants Are Living Things

**Lesson 1 - Learning About Living Things (6 pp)**

**OBJECTIVE**

- Compare and classify living and nonliving things.
- Explain what plants need to live and grow.
- Explore:
  - What are living and nonliving things?
  - Why are plants living things?

**Inquiry Skill Builder – OBSERVE:** Observe a rose

**Lesson 2 Parts of Plants (6 pp)**

**OBJECTIVE**

- Know that many plants have roots, stems, leaves, flowers, fruits, and seeds.
- Describe that these different parts do for the plant.
- Explore:
  - What are the parts of plants?
  - What do the parts of plants do?
  - Reading Skill: Summarize

**Writing in Science - Meet General Sherman**

**Math in Science – Seed graph**

**Lesson 3 Different Plants (6 pp)**

**OBJECTIVE**

- Classify and compare different plants.
- Know some edible plant parts.
  - Explore:
    - How are plants different?
    - Which plant parts can you eat?
    - Reading Skill: Problem and Solution

**Reading in Science - Strawberry Fields**

**I Read to Review- My Plant Book**

**Chapter Review (2 pp)**

## **Chapter 2 – Plants Grow and Change**

### **Lesson 1 - Flowers, Fruits, and Seeds**

#### **OBJECTIVE:**

- Describe and compare different seeds.
- Explain why flowers and fruits are important to plants.
  - Explore:
  - Why are flowers important?
  - What are the parts of a seed?

### **Inquiry Skill Builder – CLASSIFY: Classify plants**

### **Lesson 2 - How Plants Grow and Change**

#### **OBJECTIVE:**

- Describe the life cycle of a plant.
- Know that plants can grow from seeds and other plant parts.
  - Explore:
  - How do plants grow from seeds?
  - How else do plants grow from seeds?

### **Reading in Science – A Giant Grass (Bamboo) (new)**

### **Lesson 3 Plants Live in Many Places**

#### **OBJECTIVE:**

- Describe how plants survive in different places
  - Explore:
  - Where do plants live?
  - How can plants survive in the cold?

### **Writing in Science- Your Own Garden**

### **Math in Science – Fruit for Sale**

### **I Read to Review - All About Plants**

### **Chapter Review (2 pp)**

### **Inquiry Investigation – How does sunlight affect leaves?**

### **Careers – Park Ranger**

## **UNIT B – Animals and Their Homes**

### **Unit Opener Spread**

### **Unit Literature (Giraffes)**

## **Chapter 3 – Kinds of Animals**

### **Lesson 1 All Kinds of Animals (8 pp)**

#### **OBJECTIVE:**

- Observe and describe different kinds of animals.
- Explain how animals are the same and different.
  - Explore:
  - What are some types of animals?
  - What are reptiles and amphibians?

- What are some other types of animals?
- Reading Skill: Compare and Contrast

**Inquiry Skill Builder – COMPARE:** Venn diagram; compare an alligator and a duck

**Lesson 2 What animals need to live (6 pp)**

OBJECTIVE:

- Identify what animals need to survive.
- Explain and describe how different animals get what they need.
  - Explore:
    - What do animals need to live?
    - How do animals meet their needs?
    - Reading Skill: Classify

**Writing in Science** – Write about how to take care of a pet

**Math in Science** – Animal bar graph

**Lesson 3 How Animals Get Food (6 pp)**

OBJECTIVE:

- Explain how the shape of an animal’s teeth is related to what it eats.
- Classify different kinds of animals according to what they eat.
  - Explore:
    - Which animals eat plants?
    - Which animals eat meat?
    - Reading Skill: Put Things in Order

**Inquiry Investigation** – What do animals eat?

**Lesson 4 Animals Grow and Change (8 pp)**

OBJECTIVE:

- Explain how different kinds of animals have different kinds of life cycles.
- Explain how some baby animals do not look like their parents.
  - Explore:
    - How do mammals grow and change?
    - How do birds grow and change?
    - How do frogs grow and change?
    - Reading Skill: Compare and Contrast

**Reading in Science – Meet Melanie Stiassny** Eel migration

**I Read to Review** - My Animal Book

**Chapter Review (2 pp)**

**Chapter 4 – Places to Live**

**Reading Skill: Cause and Effect**

**Lesson 1 Land Habitats (6 pp)**

OBJECTIVE:

- Describe land habitats.
- Explain how different animals adapt to different environments.
  - Explore:

- What is a grassland habitat?
- What is a forest habitat?
- Reading Skill: Predict

**Inquiry Skill Builder – COMMUNICATE:** look at picture of habitats

**Lesson 2 Water Habitats (6 pp)**

OBJECTIVE:

- Describe water habitats.
- Explain how animals meet their needs in a water habitat.
  - Explore:
    - What is a lake habitat?
    - What is an ocean habitat?
  - Reading Skill: Main Idea and Details

**Writing in Science-** PU Animal Facts (Arctic Fox/Lemming)

**Math in Science** – count the number of legs

**Lesson 3 Plants and Animals Live Together (8 pp)**

OBJECTIVE:

- Explain how the interdependence of plants and animals help them thrive in their habitats.
- Describe why each part of a food chain is important.
  - Explore:
    - Why are habitats important to animals?
    - What is a food chain?
    - What happens to living things when a habitat changes?
  - Reading Skill: Cause and Effect

**Reading in Science-** Meet Jin Meng

**I Read to Review - My Habitats Book**

**Chapter Review (2 pp)**

**Careers – Veterinarian**

## **Earth Science**

**UNIT C – Our Earth**

**Unit Opener**

**Unit Literature (Sand)**

**Chapter 5 – Looking at Earth**

**Lesson 1 What Earth Looks Like (8 pp)**

OBJECTIVE:

- Identify different types of land on Earth.
- Describe differences between bodies of water.
  - Explore:
    - What is on the surface of Earth??
    - What is Earth’s water like??

- What is Earth's land like?
- Reading Skill: Summarize

**Inquiry Skill Builder – MAKE a MODEL** of a lake

**Lesson 2 Rocks and Soil (6 pp)**

OBJECTIVE:

- Observe rocks and sort them into groups based on physical properties.
- Examine soil according to color, texture, and composition.
  - Explore:
    - What are rocks?
    - What is soil?
  - Reading Skill: Put Things in Order

**Reading in Science – Meet Rondi Davies (Rocks/Diamonds)**

**Lesson 3 Changing the Land (6 pp)**

OBJECTIVE:

- Use explanatory writing to describe how erosion can be stopped.
  - Explore:
    - How can rocks change?
    - How can the land change?
  - Reading Skill: Compare and Contrast

**Writing in Science - Erosion Story**

**Math in Science – Adding rocks**

**I Read to Review - My Earth Book**

**Chapter Review (2 pp)**

**Chapter 6 – Caring for Earth**

**Lesson 1 Earth's Resources (6 pp)**

OBJECTIVE:

- Identify and describe natural resources.
- Explain how we use natural resources.
  - Explore:
    - What is a natural resource?
    - Why is soil important?
  - Reading Skill: Predict

**Inquiry Skill Builder – INVESTIGATE:** soil properties; water capacity

**Lesson 2 Using Earth's Resources (6 pp)**

OBJECTIVE:

- Explain why air and water are important resources.
- Define pollution and the need for clean air and water.
  - Explore:
    - Why are water and air important?
    - Why are clean water and air important?

- Reading Skill: Cause and Effect

### **Reading in Science Meet Mark Siddall**

#### **Lesson 3 Saving Earth's Resources (6 pp)**

##### **OBJECTIVE:**

- Explore how we use and conserve water.
- Explain how people can conserve, reduce and reuse our resources.
  - Explore:
    - How can we reuse resources?
    - How can we save resources?
  - Reading Skill: Problem and Solution

**Writing in Science-** Conserving water

**Math in Science** –Recycling graph

**Inquiry Investigation** – Earthworms

**I Read to Review** - My Resources Book

**Chapter Review**

**Careers – Hydrologist**

### **UNIT D – Weather and Sky**

**Unit Opener**

**Unit Literature (Ranger Rick—Weather and Wild Animals)**

#### **Chapter 7 – Weather and Seasons**

##### **Lesson 1 Weather All Around Us (6 pp)**

##### **OBJECTIVE:**

- Identify different weather conditions.
- Investigate ways to measure different weather conditions.
  - Explore:
    - What is weather?
    - How can you measure weather?
  - Reading Skill: Put Things in Order

**Inquiry Skill Builder – PREDICT:** weather

##### **Lesson 2 The Water Cycle (6 pp)**

##### **OBJECTIVES:**

- Understand how clouds form and water falls back to Earth.
  - Explore:
    - What makes it rain or snow?
    - What are some different kinds of clouds?
  - Reading Skill: Classify

**Inquiry Investigation (Measure weather)**

### **Lesson 3 Spring and Summer (6 pp)**

#### **OBJECTIVE:**

- Understand that weather changes over the seasons.
  - Explore:
  - What happens in spring?
  - What happens in summer?
  - Reading Skill: Main Idea and Details

**Reading in Science** Museum Mail Call: Spring in other places

### **Lesson 4 Fall and Winter (6 pp)**

#### **OBJECTIVE:**

- Identify season weather patterns in Fall and Winter.
  - Explore:
  - What happens in fall?
  - What happens in winter?
  - Reading Skill: Summarize

**Writing in Science:** seasons change

**Math in Science** – weather graph

**I Read to Review** - My Weather Book

**Chapter Review**

## **Chapter 8 –The Sky**

### **Lesson 1 The Sky Above (6 pp)**

#### **OBJECTIVE:**

- Classify objects seen in the sky during day and night.
- Understand why the Sun is important for life on Earth.
  - Explore:
  - What is in the sky?
  - Why is the Sun important?
  - Reading Skill: Problem and Solution

**Inquiry Skill Builder – RECORD DATA:** Miss Hayes’s classroom, who wears warm clothes?

### **Lesson 2 Earth Moves (6 pp)**

#### **OBJECTIVE:**

- Recognize Earth’s movement by observing shadows and seasons.
- Understand that Earth rotates to make day and night.
  - Explore:
  - What causes day and night?
  - What causes a year?
  - Reading Skill: Compare and Contrast

**Writing in Science:** write about a time of day

**Math in Science** – telling time

**Inquiry Investigation** – sunlight hours

**Lesson 3 Earth’s Neighbors (6 pp)**

OBJECTIVE:

- Observe what the Moon looks like from Earth.
- Understand that nine planets, including Earth, move around the Sun.
  - Explore:
  - How does the Moon look?
  - What are the planets?
  - Reading Skill: Cause and Effect

**Reading in Science-** Meet Ben Oppenheimer

**I Read to Review -** My Sky Book

**Chapter Review**

**Careers – Storm Chaser**

## **Physical Science**

**UNIT E – Matter**

**Unit Opener**

**Unit Literature (Ranger Rick: Where in the World Is Water?)**

**Chapter 9 –Matter Everywhere**

**Lesson 1 Describing Matter (6 pp)**

OBJECTIVE:

- Identify matter as something that occupies space and can be perceived by one more of the senses
- Describe the properties of matter.
  - Explore:
  - What is matter?
  - What is mass?
  - Reading Skill: Put Things in Order

**Writing in Science** – write about your shoes

**Math in Science** – compare weights

**Lesson 2 Solids (6 pp)**

OBJECTIVE:

- Identify the properties of solids.
- Compare the properties of different solids.
  - Explore:
  - What is a solid?
  - What are some properties of solids?
  - Reading Skill: Classify

**Reading in Science** – 3 Little Pigs and their building materials

**Lesson 3 Liquids and Gases (6 pp)**

OBJECTIVE:



- Describe the general properties of liquids and gases.
- Compare properties of different kinds of liquids and gases.
  - Explore:
  - What are some properties of a liquid?
  - What are some properties of a gas?
  - Reading Skill: Predict

**Inquiry Skill Builder – MEASURE properties**

**I Read to Review - My Matter Book  
Chapter Review**

**Chapter 10 –Changes in Matter**

**Lesson 1 Matter Can Change (4 pp)**

**OBJECTIVE:**

- Observe and describe the physical changes of matter.
  - Explore:
  - How can matter change?
  - Reading Skill: Problem and Solution

**Inquiry Skill Builder – PUT THINGS IN ORDER**

**Lesson 2 Making Mixtures (6 pp)**

**OBJECTIVE:**

- Understand how mixtures can be made from different solids and liquids.
  - Explore:
  - What is a mixture?
  - What are some other mixtures?
  - Reading Skill: Main Idea and Details

**Writing in Science:** backpack

**Math in Science –** trail mix

**Lesson 3 Heat Can Change Matter (6 pp)**

**OBJECTIVE:**

- Explore how matter can be changed by heat.
  - Explore:
  - How can solids and liquids change?
  - How can liquids and gases change?
  - Reading Skill: Summarize

**Reading in Science –** Hot Stuff (insulation)

**I Read to Review** Mix It Up

**Chapter Review**

**Inquiry Investigation –** How can water change to a gas? Observe water in open/closed container

**Careers – Baker**

## **UNIT F – Motion and Energy**

### **Unit Opener**

#### **Unit Literature For a Quick Exit**

### **Chapter 11 – On the Move**

#### **Lesson 1 Position and Motion (6 pp)**

##### **OBJECTIVE:**

- Describe the position of an object in relation to other objects.
- Observe an object's motion by recording its change in position.
  - Explore:
    - How can you tell where something is?
    - How do things move?
    - Reading Skill: Compare and Contrast

**Inquiry Skill Builder – INFER:** motion by size of animal

#### **Lesson 2 Pushes and Pulls (6 pp)**

##### **OBJECTIVE:**

- Explain how forces cause change in the motion of objects.
  - Explore:
    - What makes things move?
    - How are forces different?
    - Reading Skill: Cause and Effect

**Inquiry Investigation –** Liquids flow fast and slow

#### **Lesson 3 Simple Machines (6 pp)**

##### **OBJECTIVE:**

- Discover how simple machines make moving objects easier.
- Understand the functions of pulleys, ramps, and levers.
  - Explore:
    - What are simple machines?
    - What are levers and ramps?
    - Reading Skill: Classify

**Reading in Science:** Identifying simple machines in inventions: elevators and escalators.

#### **Lesson 4 Magnets Push and Pull (6 pp)**

##### **OBJECTIVE:**

- Understand that magnets attract some objects and not others.
- Understand that magnets have two poles.
  - Explore:
    - What is a magnet?
    - What are a magnet's poles?
    - Reading Skill: Predict

**Writing in Science:** describe a picture of a toy train using magnets

**Math in Science:** 2 magnets pick up paper clips. How many more does one pick up?

## **I Read to Review - My Motion Book**

### **Chapter Review**

#### **Chapter 12 – Energy Everywhere**

##### **Lesson 1 Heat (6 pp)**

###### **OBJECTIVE:**

- Describe different sources of energy and heat.
  - Explore:
  - What is energy?
  - What is heat?
  - Reading Skill: Main Idea and Details

**Inquiry Skill Builder – DRAW CONCLUSIONS:** heat from the Sun; heat from rubbing hands together;

##### **Lesson 2 Sound (6 pp)**

###### **OBJECTIVE:**

- Identify different qualities of sounds
- Understand what creates sound.
  - Explore:
  - How can you make sound?
  - How are sounds different?
  - Reading Skill: Summarize

**Reading in Science:** Sounds and Safety

##### **Lesson 3 Light (6 pp)**

###### **OBJECTIVE:**

- Describe sources of light.
- Explain how we use light.
  - Explore:
  - What is light?
  - How do we use light?
  - Reading Skill: Put Things in Order

**Writing in Science:** new, Turn On the Lights

**Math in Science:** stained glass showing shapes

##### **Lesson 4 Electricity (4 pp)**

###### **OBJECTIVE:**

- Describe how we use electric energy.
  - Explore:
  - How do you use electricity?
  - Reading Skill: Problem and Solution

**Writing in Science:** electricity

**Math in Science:** battery chart

**I Read to Review - My Energy Book**

### **Chapter Review**

**Careers – Musician**