

# **5TH GRADE SCIENCE LESSON OVERVIEW**

## **UNIT A - SCIENCE, ENGINEERING, AND TECHNOLOGY**

### **A. Chapter 1: What questions do scientists ask?**

1. Lesson 1 - What do scientists do?
  - a) *Chapter 1 Try It! Lab - Scientific or not?*
2. Lesson 2 - How do scientists investigate?
  - a) *LAB: Bread*
3. Lesson 3 - How do scientists collect and interpret data?
  - a) *LAB: Thermometers*
4. Lesson 4 - How do scientists support their conclusions?
  - a) *Lab - Paper Towel*
  - b) *Chapter 1 Investigate It! Lab - Banana slices*

### **B. Chapter 2: Design and Function**

1. Lesson 1 - What is technology?
  - a) *Chapter 2 Try It! LAB: Glue*
  - b) *Lab - Which transport system works best?*
2. Lesson 2 - How does technology mimic living things?
3. Lesson 3 – What is the design process?
  - a) *Chapter 2 Investigate It! LAB - Robotic arm*

# 5TH GRADE SCIENCE LESSON OVERVIEW

## UNIT B - LIFE SCIENCE

### A. Chapter 3: Classifying Organisms

- 1) Lesson 1 - How do we classify living things?  
a) *Chapter 3 Try It! LAB: Shells*
- 2) Lesson 2 - How do we classify animals?  
a) *LAB: Animals without Backbones*
- 3) Lesson 3 - How do we classify plants?  
a) *LAB: Classifying with a chart*  
b) *Chapter 3 Investigate It! LAB: Classifying with a Key*

### B) Chapter 4: Growth and Survival

- 1) Lesson 1 - What are some physical structures in living things?  
a) *Chapter 4 Try It! LAB: Temperature and seed growth*
- 2) Lesson 2 - How do adaptations help plants?  
a) *LAB: Desert*
- 3) Lesson 3 - How do adaptations help animals?  
a) *LAB: Bird Beak*
- 4) Lesson 4 - What are the life cycles of some animals?  
a) *LAB: Butterflies*  
b) *Chapter 4 Investigate It! LAB: Seeds*

### C) Chapter 5: Structure and Function

- 1) Lesson 1 - What is the circulatory system?  
a) *Chapter 5 Try It! LAB: Body parts work together*
- 2) Lesson 2 - What is the respiratory system?  
a) *LAB: Carbon Dioxide*
- 3) Lesson 3 - What are the skeletal and muscular system?  
a) *LAB: Skeletal system*
- 4) Lesson 4 - What is the nervous system?  
a) *LAB: Reaction time*
- 5) Lesson 5 - What are some other systems?  
a) *LAB: Digestion*  
b) *Chapter 5 Investigate It! LAB: Exhale*

### D) Chapter 6: Ecosystems

- 1) Lesson 1 - What are the parts of an ecosystem?  
a) *Chapter 6 Try It! LAB: Local ecosystem*
- 2) Lesson 2 - How do organisms interact in ecosystems?  
a) *LAB: Mold*
- 3) Lesson 3 - How do ecosystems change?
- 4) Lesson 4 - How do humans impact ecosystems?  
a) *LAB: Decomposing*  
b) *Chapter 6 Investigate It! LAB: Heating air*

# 5TH GRADE SCIENCE LESSON OVERVIEW

## UNIT C - EARTH SCIENCE

### A. Chapter 7: The Water Cycle and Weather

1. Lesson 1 - What is the water cycle?  
a) *Chapter 7 Try It! LAB: Water cycle*
2. Lesson 2 - What is the ocean?  
a) *LAB: Salt water*
3. Lesson 3 - What is weather?  
a) *LAB: Weather forecasts*
4. Lesson 4 - How do clouds and precipitation form?  
a) *LAB: Clouds*
5. Lesson 5 - What is climate?  
a) *LAB: Thermometer*  
b) *Chapter 7 Investigate It! LAB: Hurricane path*

### Chapter 8: Earth's Surface

6. Lesson 1 - What are minerals?  
a) *Chapter 8 Try It! LAB: Minerals (Alike and Different)*  
b) *LAB: Mineral crystals*
7. Lesson 2 - What are rocks?  
a) *LAB: Floating rocks*
8. Lesson 3 - What makes up soil?  
a) *LAB: Parts of soil*
9. Lesson 4 - What are erosion and deposition?  
a) *Lab: Melting ice*
10. Lesson 5 - How does Earth's surface change?  
a) *LAB: Forces on Earth's surface*
11. Lesson 6 - What are some energy resources?
12. Lesson 7 - What is pollution?  
a) *LAB: Pollution in water*  
b) *Chapter 8 Investigate It! LAB: Mineral Properties*

### B. Chapter 9: Earth and Space

1. Lesson 1 - How does Earth move?  
a) *Chapter 9 Try It! Lab: Spiral Galaxy*  
b) *LAB: Sunlight*
2. Lesson 2 - What is a star?
3. Lesson 3 - What are the inner planets?  
a) *LAB: Orbiting time*
4. Lesson 4 - What are the outer planets?  
a) *LAB: Inner/Outer planet sizes*
5. Lesson 5 - What are asteroids, meteors, comets, and moons?  
a) *LAB: Meteoroid falling*  
b) *Chapter 8 Investigate It! LAB: Spinning planet*

# 5TH GRADE SCIENCE LESSON OVERVIEW

## UNIT D - PHYSICAL SCIENCE

### A. Chapter 10: Properties of Matter

1. Lesson 1 - What makes up matter?  
a) *Chapter 10 Try It! LAB: Weight and volume*
2. Lesson 2 - How can matter be described?  
a) *LAB: Properties of Solids*
3. Lesson 3 - What are solids, liquids, and gases?  
a) *LAB: States of Water*
4. Lesson 4 - What are mixtures and solutions?  
a) *LAB: How to separate a mixture*
5. Lesson 5 - How does matter change?  
a) *LAB: Air heating up*  
b) *Chapter 10 Investigate It! LAB: Ways to separate a mixture*

### B. Chapter 11: Forces and motion

1. Lesson 1 - What are forces?  
a) *Chapter 11 Try It! LAB: Paper Helicopter*
2. Lesson 2 - What are Newton's laws?  
a) *LAB: Forces affect motion*
3. Lesson 3 - What are machines?  
a) *LAB: Wheel and Axle*  
b) *Chapter 11 Investigate It! LAB: Motion of a rocket*

### C. Chapter 12: Changing Forms of Energy

1. Lesson 1 - What is energy?  
a) *Chapter 12 Try It! LAB: Stored Energy*
2. Lesson 2 - What is sound energy?  
a) *LAB: Rubber Band*
3. Lesson 3 - What is light energy?  
a) *LAB: White Light*  
b) *Chapter 12 Investigate It! LAB: Electrical energy forms*