

SRA Snapshots Video Science™: Level A
correlation to
Tennessee Science Curriculum Standards
Grade 3

SRA Snapshots Video Science™ consists of four interdependent components. Each level has four program DVDs that provide engaging video lessons. The student edition (**SE**) provides student friendly text that reinforces the concepts introduced in the video. The Teacher’s Resource Book (**TRB**) provides support activities in a blackline master format. The Teacher’s Guide (**TG**) provides lesson planning, differentiated instruction activities, and answers to all student activities in the Student Edition.

KEY:

Reference	Program Component
Video	Video lessons on program DVDs
SE	Student Edition
TRB	Teacher’s Resource Book
TG	Teacher’s Guide

Life Science
Cell Structure and Function
3.1.1 Recognize that living things are made up of smaller parts.
Level A: Chapter 2, Lesson 2, Video A, SE page 31 Chapter 3, Lesson 2, Video A, SE page 55
See also Level C: Chapter 1, Lesson 1, Video A, SE page 3; Lesson 3, Video A, SE page 15; Video B, SE page 16; Critical Thinking, SE page 19

Life Science
Cell Structure and Function
3.1.2 Recognize that smaller parts of living things contribute to the operation and well being of entire organisms. a. Use magnifiers to observe and describe what occurs when a plant loses a specific part (e.g., leaves, roots).
Chapter 1, Lesson 1, Video B, SE page 4; Lesson 2, Video C, SE page 11; Lesson 3, Video C, SE page 19 Chapter 2, KnowZone, SE pages 36-37; Lesson 3, Video B, SE page 40

Life Science
Cell Structure and Function
3.1.2 Recognize that smaller parts of living things contribute to the operation and well being of entire organisms. b. Recognize that smaller parts of organisms are essential to their well being.
See Level C: Chapter 1, Lesson 1, Video B, SE page 4; Video C, SE page 5; Critical Thinking, SE page 7; Lesson 2, Video A, SE page 9; Lesson 3, Video A, SE page 15; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30

Life Science
Interactions Between Living Things and Their Environments
3.2.1 Recognize the distinction between living and non-living things.
Chapter 1, Lesson 1, Video A, SE page 3; Process Skill, SE page 7 Chapter 2, Lesson 1, Video A, SE page 25; Video C, SE page 27; Critical Thinking, SE page 29; Process Skill, SE page 29; Lesson 2, Process Skill, SE page 35

Life Science
Interactions Between Living Things and Their Environments
3.2.3 Examine interrelationships among plants, animals, and their environment.
Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Video C, SE page 5; Process Skill, SE page 7; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30
Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Video C, SE page 27; Process Skill, SE page 29; Lesson 2, Video A, SE page 31; Video B, SE page 2; Video C, SE page 33; Critical Thinking, SE page 35; Process Skill, SE page 35; Lesson 3, Video A, SE page 39; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48

Life Science
Interactions Between Living Things and Their Environments
3.2.4 Recognize that the environment and the organisms that live in it can be affected by pollution.
Chapter 3, Lesson 3, Video A, SE page 61
Chapter 4, Lesson 3, Video B, SE page 84
Chapter 5, Lesson 2, Video C, SE page 101; Critical Thinking, SE page 103

Life Science
Food Production and Energy for Life
3.3.1 Recognize the basic requirements of all living things.
Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Video C, SE page 5; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30
Chapter 2, Lesson 3, Video A, SE page 39
Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Video C, SE page 49; KnowZone, Se pages 52-53

Life Science
Food Production and Energy for Life
3.3.2 Recognize the basic parts of plants.
Chapter 1, Lesson 1, Video B, SE page 4; Lesson 2, Video C, SE page 11; Lesson 3, Video C, SE page 19
Chapter 2, KnowZone, SE pages 36-37; Lesson 3, Video B, SE page 40

Life Science
Heredity and Reproduction
3.4.1 Recognize that living things reproduce.
Chapter 1, Lesson 3, Video A, SE page 17; Video B, SE page 18; Video C, SE page 19

Life Science
Heredity and Reproduction
3.4.2 Recognize that offspring tend to resemble their parents.
Chapter 1, Lesson 3, SE page 19

Life Science
Heredity and Reproduction
3.4.3 Recognize that the appearance of plants and animals changes as they mature.
Chapter 1, Lesson 3, Video A, SE page 17; Video B, SE page 18; Video C, SE page 19; Process Skill, SE page 21

Life Science
Diversity and Adaptation Among Living Things
3.5.1 Recognize the differences among plants and animals of the same kind.
Chapter 2, Lesson 3, Video B, SE page 40; Video C, SE page 41

Life Science
Diversity and Adaptation Among Living Things
3.5.2 Recognize that living things have features that help them to survive in its environment.
Chapter 1, Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Lesson 3, Video C, SE page 19 Chapter 2, Lesson 2, Video A, SE page 31; KnowZone, SE pages 36-37; Lesson 3, Video B, SE page 40; Video C, SE page 41; Critical Thinking, SE page 43; Process Skill, SE page 43

Life Science
Biological Change
3.6.1 Recognize that some plants and animals that once lived are no longer found on earth.
Chapter 4, Lesson 2, Video B, SE page 76; KnowZone, SE pages 80-81

Earth and Space Science
Earth and Its Place in the Universe
3.7.1 Recognize that different objects appear in the day and nighttime sky. a. Recognize that a telescope serves as a tool for observing distant objects.
Chapter 6, KnowZone, SE pages 124-125; Lesson 3, Video B, SE page 128; Process Skill, SE page 131

Earth and Space Science
Earth and Its Place in the Universe
3.7.1 Recognize that different objects appear in the day and nighttime sky. b. Recognize that planets are major features of the universe.
Chapter 6, Lesson 2, Video A, SE page 119; Video B, SE page 120; Video C, SE page 121; Writing in Science, SE page 123

Earth and Space Science
Earth and Its Place in the Universe
3.7.2 Recognize that there are predictable patterns that occur in the universe. a. Explain how day and night result from the rotation of the earth relative to the sun.
Chapter 6, Lesson 1, Video A, SE page 113; Process Skill, SE page 117

Earth and Space Science
Earth and Its Place in the Universe
3.7.2 Recognize that there are predictable patterns that occur in the universe. b. Observe, identify, and order the basic phases of the moon.
Chapter 6, Lesson 1, Video C, SE page 115; Lesson 3, Process Skill, SE page 131

Earth and Space Science
Atmospheric Cycles
3.8.1 Recognize daily and seasonal weather changes.
See Level B: Chapter 5, Lesson 2, Video B, SE page 98; Video C, SE page 99; Process Skill, SE page 101; Lesson 3, Video A, SE page 105; Video B, SE page 106; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102

Earth and Space Science
Atmospheric Cycles
3.8.2. Realize that weather is associated with temperature, precipitation, and wind conditions and can be measured using tools and instruments.
a. Explain how changes in temperature, precipitation, wind speed/direction result in different weather conditions.
Chapter 5, KnowZone, SE pages 96-97; Lesson 2, Process Skill, SE page 103; Lesson 3, Video A, SE page 105; Video B, SE page 106; Video C, SE page 107; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102

Earth and Space Science
Atmospheric Cycles
3.8.2. Realize that weather is associated with temperature, precipitation, and wind conditions and can be measured using tools and instruments.
b. Use data to prepare an illustration of a specific day's weather.
Chapter 5, KnowZone, SE pages 96-97; Lesson 2, Process Skill, SE page 103; Lesson 3, Video A, SE page 105; Video B, SE page 106; Video C, SE page 107; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102

Earth and Space Science
Earth Features
3.9.1 Identify the earth's major geological features.
Chapter 4, Lesson 1, Video B, SE page 70; Video C, SE page 71; Process Skill, SE page 73; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84

Earth and Space Science
Earth Resources
3.10.1 Recognize that there are a variety of earth materials that have basic observable and measurable properties.
a. Explain the relationship between rocks and minerals.
Chapter 4, Lesson 2, Video A, SE page 75; Video C, SE page 77

Earth and Space Science
Earth Resources
3.10.1 Recognize that there are a variety of earth materials that have basic observable and measurable properties.
b. Identify common types of rocks.
Chapter 4, Lesson 2, Video A, SE page 75

Earth and Space Science
Earth Resources
3.10.2 Realize that earth materials can be recycled or conserved.
Chapter 3, Lesson 3, Video A, SE page 61; Video C, SE page 63; Process Skill, SE page 65
Chapter 4, Lesson 2, Video A, SE page 83; Video B, SE page 84; Video C, SE page 85
Chapter 5, Lesson 2, Video C, SE page 101
Chapter 9, Lesson 3, video C, SE page 195

Physical Science
Forces and Motion
3.11.1 Realize the basic concept that forces can move objects (push/pull).
a. Describe the relationship between the amount of force applied to an object and the distance the object moves.
Chapter 7, Lesson 1, Video A, SE page 135; Video B, SE page 136; Video C, SE page 137; KnowZone, SE pages 140-141; Lesson 2, Video A, SE page 143; Video B, SE page 144

Physical Science
Forces and Motion
3.11.1 Realize the basic concept that forces can move objects (push/pull). b. Recognize that objects move differently on different surfaces.
Chapter 7, Lesson 1, Video B, SE page 136; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138

Physical Science
Forces and Motion
3.11.1 Realize the basic concept that forces can move objects (push/pull). c. Recognize that magnets can move objects without touching them.
Chapter 7, Lesson 2, Video A, SE page 143; Video B, SE page 144; Video C, SE page 145; Critical Thinking, SE page 147; Process Skill, SE page 147

Physical Science
Forces and Motion
3.11.2 Observe and predict how the weight of an object and its position affect balance.
Chapter 7, Lesson 1, Video A, SE page 135; Video C, SE page 137

Physical Science
Structure and Properties of Matter
3.12.1 Recognize that objects have observable properties that can change over time and under different conditions. a. Classify materials according to their physical properties.
Chapter 4, Lesson 3, Video A, SE page 83 Chapter 8, Lesson 1, Video B, SE page 156; Critical Thinking, SE page 161; Process Skill, SE page 161

Physical Science
Structure and Properties of Matter
3.12.1 Recognize that objects have observable properties that can change over time and under different conditions. b. Select and use appropriate tools to observe and measure the physical properties of materials.
Chapter 3, Lesson 2, Video A, SE page 55; Video B, SE page 56; Video C, SE page 57 Chapter 5, KnowZone, SE pages 96-97; Lesson 3, Video A, SE page 105 Chapter 6, KnowZone, SE page 124-125; Lesson 3, Video B, SE page 128; Video C, SE page 129; Process Skill, SE page 131 Chapter 7, LabTime Hands-On Activity, TRB pages 123-125; TG page 138 Chapter 8, Lesson 1, Video C, SE page 187; LabTime Hands-On Activity, TRB pages 141-143, TG page 156

Physical Science
Interactions of Matter
3.13.1 Investigate the kinds of changes that occur when different types of matter interact.
Chapter 8, Lesson 2, Video B, SE page 164; Video C, SE page 165; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156

Physical Science
Energy
3.14.1 Realize that the sun is the main source of earth's heat and light energy.
Chapter 2, Lesson 2, Video A, SE page 31; Video B, SE page 32 Chapter 5, Lesson 1, Video B, SE page 92; Lesson 2, Video B, SE page 100 Chapter 8, Lesson 3, Video A, SE page 171 Chapter 9, Lesson 1, Video A, SE page 179; Lesson 3, Video C, SE page 195

Physical Science
Energy
3.14.2 Recognize that sound is produced when objects vibrate. a. Explain how sounds are produced.
Chapter 9, Lesson 1, Video C, SE page 181; Critical Thinking, SE page 183; Writing in Science, SE page 183; Process Skill, SE page 183

Physical Science
Energy
3.14.2 Recognize that sound is produced when objects vibrate. b. Differentiate between pitch and volume.
Chapter 9, Lesson 1, Video C, SE page 181; Critical Thinking, SE page 183; Writing in Science, SE page 183; Process Skill, SE page 183

SRA Snapshots Video Science™: Level B
correlation to
Tennessee Science Curriculum Standards
Grade 4

SRA Snapshots Video Science™ consists of four interdependent components. Each level has four program DVDs that provide engaging video lessons. The student edition (**SE**) provides student friendly text that reinforces the concepts introduced in the video. The Teacher’s Resource Book (**TRB**) provides support activities in a blackline master format. The Teacher’s Guide (**TG**) provides lesson planning, differentiated instruction activities, and answers to all student activities in the Student Edition.

KEY:

Reference	Program Component
Video	Video lessons on program DVDs
SE	Student Edition
TRB	Teacher’s Resource Book
TG	Teacher’s Guide

Life Science
Cell Structure and Function
4.1.1 Know that all organisms are made of one or more cells.
Level B: Chapter 1, Lesson 1, Video A, SE page 3
See also Level C: Chapter 1, Lesson 1, Video A, SE page 3; Lesson 3, Video A, SE page 15; Video B, SE page 16; Critical Thinking, SE page 19

Life Science
Interactions Between Living Things and Their Environments
4.2.1 Investigate the relationships among organisms in a specific ecosystem.
Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Video C, SE page 27; Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; Process Skill, SE page 35; Lesson 3, Video A, SE page 39; Video B, SE page 40; Video C, SE page 41; Critical Thinking, SE page 43; Process Skill, SE page 43; Lesson Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Video C, SE page 49; Process Skill, SE page 51

Life Science
Interactions Between Living Things and Their Environments
4.2.2 Recognize that organisms are able to change their environment.
Chapter 2, Lesson 1, Video B, SE page 26; Lesson 3, Video C, SE page 41 Chapter 3, Lesson 3, Video A, SE page 61; Video B, SE page 62; Video C, SE page 63

Life Science
Food Production and Energy for Life
4.3.1 Realize that plants and animals use food for energy.
Chapter 2, Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; Process Skill, SE page 35; Lesson 3, Video A, SE page 39; Video B, SE page 40; Video C, SE page 41; Process Skill, SE page 43; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48

Life Science
Food Production and Energy for Life
4.3.2 Recognize the function of specific structures in organisms that allow them to obtain and use energy.
Chapter 1, Lesson 1, Video A, SE page 3; KnowZone, SE pages 14-15; Lesson 3, Video B, SE page 18; Video C, SE page 19

Life Science
Heredity and Reproduction
4.4.1 Realize that certain characteristics are passed from parents to offspring.
Chapter 1, Lesson 2, Video C, SE page 11; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30

Life Science
Heredity and Reproduction
4.4.2 Investigate the life cycles of different organisms.
Level B: Chapter 1, Lesson 3, Video C, SE page 19
See also Level A: Chapter 1, Lesson 3, Video B, SE page 18; Process Skill, SE page 21
See also Level C: Chapter 2, Lesson 2, Video A, SE page 31; KnowZone, SE pages 36-37

Life Science
Diversity and Adaptation Among Living Things
4.5.1 Realize that plants and animals can be grouped according to similarities and differences in their characteristics.
Chapter 1, Lesson 1, Video B, SE page 4; Lesson 2, Video A, SE page 9; Video B, SE page 10; Process Skill, SE page 13; Lesson 3, Video A, SE page 17; Process Skill, SE page 21 Classification, SE page 202

Life Science
Biological Change
4.6.1 Realize that fossils show connections between organisms that lived in the past and those that live in the present.
Chapter 1, Lesson 1, Video C, SE page 5; Math in Science, SE page 7; Process Skill, SE page 7 Chapter 4, Lesson 2, Video B, SE page 76; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84

Life Science
Biological Change
4.6.2 Recognize that extinction has occurred in the past and continues today.
Chapter 1, Lesson 1, Video C, SE page 5; Critical Thinking, SE page 7; Process Skill, SE page 7

Earth and Space Science
Earth and Its Place in the Universe
4.7.1 Know that objects in space have identifiable characteristics (e.g., appearance, location, and apparent motion).
Chapter 6, Lesson 1, Video A, SE page 113; Video C, SE page 115; Lesson 2, Video A, SE page 119; Video B, SE page 120; Video C, SE page 121; Process Skill, SE page 123; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120

Earth and Space Science
Earth and Its Place in the Universe
4.7.2 Investigate the patterns and movement of objects in space. a. Recognize that the length and position of a shadow is related to the position of the sun.
See Level A: Chapter 6 LabTime Hands-On Activity, TRB pages 105-107, TG page 120

Earth and Space Science
Earth and Its Place in the Universe
4.7.2 Investigate the patterns and movement of objects in space. b. Demonstrate how the earth rotates and revolves.
Chapter 6, Lesson 1, Video B, SE page 114; Process Skill, SE page 117

Earth and Space Science
Earth and Its Place in the Universe
4.7.2 Investigate the patterns and movement of objects in space. c. Simulate the changing shape of the moon.
Chapter 6, Lesson 1, Video C, SE page 115; Process Skill, SE page 117

Earth and Space Science
Atmospheric Cycles
4.8.1 Recognize that atmospheric conditions vary and can be measured.
Chapter 5, Lesson 2, Video C, SE page 99; Process Skill, SE page 101; Lesson 3, Video B, SE page 106; Video C, SE page 107; LabTime Hands-On Activity 5, TRB pages 87-89; TG page 102

Earth and Space Science
Atmospheric Cycles
4.8.2. Recognize that landforms and bodies of water affect weather and climate.
Chapter 5, Lesson 2, Video B, SE page 98; Video C, SE page 99; Process Skill, SE page 101; Lesson 3, video A, SE page 105; Video B, SE page 106; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102

Earth and Space Science
Earth Features
4.9.1 Recognize that the earth's geological features change.
Chapter 4, Lesson 1, Video B, SE page 70; Video C, SE page 71; Lesson 2, Video A, SE page 75

Earth and Space Science
Earth Features
4.9.2 Know that the earth is composed of different layers.
Chapter 4, Lesson 1, Video A, SE page 69; Video C, SE page 71; Process Skill, SE page 73 Earth's Layers, SE page 204

Earth and Space Science
Earth Resources
4.10.1 Recognize that earth materials have a variety of practical uses.
Chapter 4, Lesson 2, Video B, SE page 76; Lesson 3, Video A, SE page 81; Video B, SE page 82; Video C, SE page 83; KnowZone, SE pages 86-87; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84 Chapter 5, Lesson 1, Video C, SE page 93; Lesson 2, Video A, SE page 97 Chapter 9, Lesson 2, Video A, SE page 191; Video B, SE page 192; Critical Thinking, SE page 195; Process Skill, SE page 195

Earth and Space Science
Earth Resources
4.10.2 Know the basic characteristics of soils.
See Level A: Chapter 4, Lesson 2, Video C, SE page 77; Process Skill, SE page 79
See also Level C: Chapter 4, Lesson 3, Video C, SE page 85

Earth and Space Science
Earth Resources
4.10.3 Realize that differences between renewable and non-renewable resources.
Chapter 4, Lesson 3, Video B, SE page 82; Video C, SE page 83; KnowZone, SE pages 86-87 Chapter 5, Lesson 1, Video C, SE page 93 Chapter 9, Lesson 3, Video A, SE page 191; Video B, SE page 192

Physical Science
Forces and Motion
4.11.1 Recognize that gravity is the force that pulls objects toward the earth.
Chapter 8, Lesson 3, Video A, SE page 171

Physical Science
Forces and Motion
4.11.2 Recognize the relationship between force and motion. a. Explain how speed affects the distance traveled.
See Level C: Chapter 9, Lesson 2, Video B, SE page 188; Video C, SE page 189; Critical Thinking, SE page 191

Physical Science
Forces and Motion
4.11.2 Recognize the relationship between force and motion. b. Recognize simple machines (e.g., inclined plane, pulley, lever).
Chapter 8, Lesson 3, Video C, SE page 173; Math in Science, SE page 175; Process Skill, SE page 175
See also Level A: Chapter 8, Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; Writing in Science, SE page 153; Process Skill, SE page 153

Physical Science
Forces and Motion
4.11.3 Recognize that the motion of objects is affected by friction.
Level B: Chapter 8, Lesson 3, Video A, SE page 171
See also Level A: Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138
See also Level C: Chapter 9, Lesson 1, Video C, SE page 181

Physical Science
Structure and Properties of Matter
4.12.1 Recognize that matter has predictable properties and is composed of basic units, some too small to be seen with the naked eye. a. Describe and compare observations made of objects using the naked eye, magnifying glass, and microscope.
Chapter 1, Lesson 1, Video A, SE page 3 Chapter 6, Lesson 3, Video A, SE page 125; Critical Thinking, SE page 129 Chapter 8, Lesson 2, Video C, SE page 165

Physical Science
Structure and Properties of Matter
4.12.1 Recognize that matter has predictable properties and is composed of basic units, some too small to be seen with the naked eye. b. Describe matter by its observable physical properties (i.e., color, shape, texture, weight, volume, length).
Chapter 7, Lesson 1, Video A, SE page 135; Video B, SE page 136; Video C, SE page 137; Process Skill, SE page 139; KnowZone, SE pages 140-141; Lesson 2, Video A, SE page 143; Video B, SE page 144; Video C, SE page 145; Process Skill, SE page 147

Physical Science
Structure and Properties of Matter
4.12.2 Recognize conditions that are associated with different states of matter.
Chapter 7, Lesson 1, Video C, SE page 137; Critical Thinking, SE page 139; Process Skill, SE page 139; Lesson 3, Video C, SE page 151

Physical Science
Interactions of Matter
4.13.1 Describe the types of changes that result from interactions of matter.
Chapter 7, Lesson 3, Video B, SE page 150; Video C, SE page 151; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138

Physical Science
Energy
4.14.1 Know that energy exists in many forms.
Chapter 8, Lesson 1, Video A, SE page 157; Lesson 2, Video A, SE page 163 Chapter 9, Lesson 1, Video A, SE page 179; Lesson 2, Video A, SE page 185; Lesson 3, Video A, SE page 191

Physical Science
Energy
4.14.2 Recognize the characteristics of light energy and sound energy. a. Describe how light behaves when it strikes different surfaces.
Chapter 8, Lesson 2, Video A, SE page 163; Video C, SE page 165

Physical Science
Energy
4.14.2 Recognize the characteristics of light energy and sound energy. b. Explain how the volume and pitch of sound are controlled.
Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 159; Writing in Science, SE page 161; Process Skill, SE page 161; LabTime Hands-On Activity 8, TRB Pages 141-143; TG Page 156

Physical Science
Energy
4.14.3 Recognize the basic concept of electricity. a. Construct and explain a simple electrical circuit.
Chapter 9, Lesson 1, Video C, SE page 181

Physical Science
Energy
4.14.3 Recognize the basic concept of electricity. b. Categorize materials as conductors or insulators.
Chapter 9, Lesson 1, Video B, SE page 180

SRA Snapshots Video Science™: Level C
correlation to
Tennessee Science Curriculum Standards
Grade 5

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KEY:

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TRB	Teacher’s Resource Book
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Life Science
Cell Structure and Function
5.1.1 Know that all organisms are made of one or more cells. a. Draw and label basic structures of plant and animal cells (i.e., cell wall, cell membrane, cytoplasm, nucleus, chloroplasts).
Chapter 1, Lesson 2, Video A, SE page 9

Life Science
Cell Structure and Function
5.1.1 Know that all organisms are made of one or more cells. b. Compare and contrast the basic structure of plant and animal cells (i.e., cell membrane, cytoplasm, and nucleus).
Chapter 1, Lesson 2, Video A, SE page 9

Life Science
Cell Structure and Function
5.1.1 Know that all organisms are made of one or more cells. c. Differentiate among cells, tissues, organs, and systems.
Chapter 1, Lesson 1, Video C, SE page 5; Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Critical Thinking, SE page 13; Lesson 3, Video A, SE page 15; Video B, SE page 16; Video C, SE page 17

Life Science
Interactions Between Living Things and Their Environments
5.2.1 Investigate the relationships among organisms in a specific ecosystem.
Chapter 2, KnowZone, SE pages 36-37; Lesson 3, Video A, SE page 39; Video B, SE page 40; Video C, SE page 41 Chapter 3, Lesson 2, Video A, SE page 53; Video B, SE page 54; Video C, SE page 55; KnowZone, SE pages 58-59

Life Science
Interactions Between Living Things and Their Environments
5.2.2 Recognize that organisms are able to change their environment.
Chapter 3, Lesson 1, Video C, E page 49; KnowZone, SE pages 58-59; Lesson 3, Video B, SE page 62 Chapter 4, Lesson 2, Video A, SE page 77; Process Skill, SE page 81; Lesson 3, Video A, SE page 83 Chapter 5, Lesson 1, Video C, SE page 93

Life Science
Food Production and Energy for Life
5.3.1 Realize that plants and animals use food for energy.
Chapter 1, Lesson 1, Video B, SE page 4 Chapter 2, Lesson 3, Video A, SE page 39; Video B, SE page 40; Video C, SE page 41; Critical Thinking, SE page 43 Chapter 3, Lesson 1, Video B, SE page 48

Life Science
Food Production and Energy for Life
5.3.2 Recognize the function of specific structures in organisms that allow them to obtain and use energy.
Chapter 1, Lesson 2, Video A, SE page 9 Chapter 2, Lesson 2, Video B, SE page 32; Video C, SE page 33

Life Science
Heredity and Reproduction
5.4.1 Realize that certain characteristics are passed from parents to offspring. a. Explain the function of the flower in plant reproduction.
See Level A: Chapter 1, Lesson 2, Video C, SE page 11; Lesson 3, Video C, SE page 19
See also Level B: Chapter 1, Lesson 3, Video A, SE page 17; Video B, SE page 18; Video C, SE page 19; Critical Thinking, SE page 21; Process Skill, SE page 21

Life Science
Heredity and Reproduction
5.4.1 Realize that certain characteristics are passed from parents to offspring. b. Observe specific plants and explain how they grow from and produce seeds (i.e., sunflower, beans).
See Level B: Chapter 1, Lesson 3, Video A, SE page 17; Video B, SE page 18; Video C, SE page 19; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48

Life Science
Heredity and Reproduction
5.4.1 Realize that certain characteristics are passed from parents to offspring. c. Compare and contrast how different plants reproduce (i.e., flowers, spores).
See Level A: Chapter 1, Lesson 2, Video C, SE page 11; Lesson 3, Video C, SE page 19
See also Level B: Chapter 1, Lesson 3, Video A, SE page 17; Video C, SE page 19; Process Skill, SE page 21

Life Science
Heredity and Reproduction
5.4.2 Realize that reproduction is necessary for the survival of the species. a. Recognize that new generations of living things arise through reproduction.
Chapter 2, Lesson 2, Video A, SE page 31; Video B, SE page 32; Critical Thinking, SE page 35; Process Skill, SE page 35

Life Science
Heredity and Reproduction
5.4.2 Realize that reproduction is necessary for the survival of the species. b. Explain that the continuation of a species is dependent upon the reproduction of its members.
Chapter 2, Lesson 2, Video A, SE page 31; Video B, SE page 32; Critical Thinking, SE page 35; Process Skill, SE page 35

Life Science
Heredity and Reproduction
5.4.3 Investigate the life cycles of different organisms.
Level C: Chapter 2, Lesson 2, Video A, SE page 31
See also Level A: Chapter 1, Lesson 3, Video A, SE page 17; Video B, SE page 18; Video C, SE page 19; Process Skill, SE page 21
See also Level B: Chapter 1, Lesson 3, Video C, SE page 19

Life Science
Diversity and Adaptation Among Living Things
5.5.1 Realize that plants and animals can be grouped according to similarities and differences in their characteristics.
Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Process Skill, SE page 29

Life Science
Diversity and Adaptation Among Living Things
5.5.2 Determine that adaptations help organisms to survive in their environments.
Chapter 2, Lesson 1, Video C, SE page 27; Lesson 2, Video B, SE page 32; Video C, SE page 33 Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66

Life Science
Biological Change
5.6.1 Realize that fossils show connections between organisms that lived in the past and those that live in the present.
Chapter 2, Lesson 1, Video C, SE page 27 Chapter 4, Lesson 3, Video A, SE page 83

Earth and Space Science
Earth and Its Place in the Universe
5.7.1 Know that objects in space have identifiable characteristics (e.g., appearance, location, and apparent motion).
Chapter 4, Lesson 1, Video B, SE page 70; Video C, SE page 71; Critical thinking, SE page 73; KnowZone, SE pages 74-75; Lesson 2, Video A, SE page 77; Video B, SE page 78; Video C, SE page 79; Critical Thinking, SE page 81; Lesson 3, Video A, SE page 83; Video B, SE page 84; Video C, SE page 85; Process Skill, SE page 87

Earth and Space Science
Earth and Its Place in the Universe
5.7.2 Investigate the patterns and movement of objects in space. a. Demonstrate how moon phases occur.
Chapter 6, Lesson 2, Video C, SE page 123

Earth and Space Science
Earth and Its Place in the Universe
5.7.2 Investigate the patterns and movement of objects in space. b. Explain why the moon appears to change shape.
Chapter 6, Lesson 2, Video C, SE page 123

Earth and Space Science
Earth and Its Place in the Universe
5.7.2 Investigate the patterns and movement of objects in space. c. Explain the difference between rotation and revolution in the solar system.
Chapter 6, Lesson 2, Video A, SE page 121; Video C, SE page 123

Earth and Space Science
Atmospheric Cycles
5.8.1 Recognize that atmospheric conditions vary and can be measured.
Chapter 4, Lesson 3, Video A, SE page 103; Video B, SE page 104; Process Skill, SE page 107

Earth and Space Science
Atmospheric Cycles
5.8.2. Recognize that landforms and bodies of water affect weather and climate.
Chapter 5, Lesson 1, Video B, SE page 92; Process Skill, SE page 95

Earth and Space Science
Atmospheric Cycles
5.8.3 Recognize the basic features of the water cycle. a. Demonstrate the components and processes of the water cycle.
Chapter 5, Lesson 2, Video B, SE page 98; Process Skill, SE page 101 The Planet Earth, SE page 204

Earth and Space Science
Atmospheric Cycles
5.8.3 Recognize the basic features of the water cycle. b. Analyze how temperature affects evaporation, condensation, and precipitation.
Chapter 5, Lesson 2, Video B, SE page 98; Process Skill, SE page 101 Chapter 7, Lesson 1, Video B, SE page 136; Lesson 2, Video C, SE page 145; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138 Chapter 8, Lesson 2, Video C, SE page 165

Earth and Space Science
Earth Features
5.9.1 Recognize that the earth's geological features change.
Chapter 4, Lesson 1, Video C, SE page 71; Critical Thinking, SE page 73; KnowZone, SE pages 74-75; Lesson 2, Video A, SE page 77; Video B, SE page 78; Video C, SE page 79; Critical Thinking, SE page 81; Lesson 3, Writing in Science, SE page 87; Process Skill, SE page 87

Earth and Space Science
Earth Features
5.9.2 Know that the earth is composed of different layers.
Chapter 4, Lesson 1, Video A, SE page 69; Video B, SE page 70 Earth's Layers, SE page 204

Earth and Space Science
Earth Resources
5.10.1 Recognize that earth materials have a variety of practical uses.
Chapter 4, Lesson 3, Video B, SE page 84; Video C, SE page 85; Critical Thinking, SE page 87 Chapter 5, Lesson 2, Video A, SE page 97; Video C, SE page 99; Critical thinking, SE page 101 Chapter 7, KnowZone, SE pages 140-141 Chapter 8, Lesson 1, Video C, SE page 159; Lesson 3, Video C, SE page 173

Earth and Space Science
Earth Resources
5.10.2 Know the basic characteristics of soils. a. Describe the process of soil formation.
Level C: Chapter 4, Lesson 3, Video C, SE page 85
See also Level A: Chapter 4, Lesson 2, Video C, SE page 77; Critical Thinking, SE page 79; Process Skill, SE page 79

Earth and Space Science
Earth Resources
5.10.2 Know the basic characteristics of soils. b. Identify soil characteristics that best support plant growth.
Level C: Chapter 4, Lesson 3, Video C, SE page 85
See also Level A: Chapter 4, Lesson 2, Video C, SE page 77; Critical Thinking, SE page 79; Process Skill, SE page 79

Earth and Space Science
Earth Resources
5.10.3 Realize that differences between renewable and non-renewable resources.
Chapter 8, Lesson 1, Video C, SE page 159; Lesson 3, Video C, SE page 173; Critical Thinking, SE page 175

Physical Science
Forces and Motion
5.11.1 Recognize that gravity is the force that pulls objects toward the earth.
Chapter 6, Lesson 1, Video B, SE page 114; Lesson 2, Video B, SE page 122 Chapter 9, Lesson 1, Video B, SE page 180

Physical Science
Forces and Motion
5.11.2 Recognize the relationship between force and motion. a. Explain the relationship among mass, force, and distance traveled.
Chapter 9, Lesson 1, Video B, SE page 180; Lesson 2, Video B, SE page 188; Video C, SE page 189; Lesson 3, Video B, SE page 194

Physical Science
Forces and Motion
5.11.2 Recognize the relationship between force and motion. b. Explain how slope affects the amount of force.
Chapter 9, Lesson 1, Video B, SE page 180; Lesson 2, Process Skill, SE page 191

Physical Science
Forces and Motion
5.11.2 Recognize the relationship between force and motion. c. Explore and explain the use of simple machines.
See Level A: Chapter 8, Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; Writing in Science, SE page 153; Process Skill, SE page 153
See also Level B: Chapter 8, Lesson 3, Video C, SE page 173; Math in Science, SE page 175; Process Skill, SE page 175

Physical Science
Forces and Motion
5.11.3 Recognize that the motion of objects is affected by friction.
Chapter 9, Lesson 1, Video C, SE page 181; Critical Thinking, SE page 183; Process Skill, SE page 183

Physical Science
Structure and Properties of Matter
5.12.1 Recognize that matter has predictable properties and is composed of basic units, some too small to be seen with the naked eye.
Chapter 7, Lesson 1, Video A, SE page 135; Video B, SE page 136; KnowZone, SE pages 140-141; Lesson 2, Video A, SE page 143; Video B, SE page 144; Video C, SE page 145

Physical Science
Structure and Properties of Matter
5.12.2 Recognize conditions that are associated with different states of matter. a. Describe how evaporation and condensation occur as a result of temperature change.
Chapter 5, Lesson 2, Video B, SE page 98; Process Skill, SE page 101 Chapter 7, Lesson 1, Video B, SE page 136; Lesson 2, Video C, SE page 145; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138 Chapter 8, Lesson 2, Video C, SE page 165

Physical Science
Structure and Properties of Matter
5.12.2 Recognize conditions that are associated with different states of matter. b. Explain why different types of matter freeze, melt, and/or evaporate at different rates.
Chapter 7, Lesson 1, Video B, SE page 136; Lesson 2, Video A, SE page 143; Video C, SE page 145; Critical Thinking, SE page 147

Physical Science
Interactions of Matter
5.13.1 Describe the types of changes that result from interactions of matter. a. Identify conditions associated with a chemical change.
Chapter 7, Lesson 2, Video C, SE page 145; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; Process Skill, SE page 153

Physical Science
Interactions of Matter
5.13.1 Describe the types of changes that result from interactions of matter. b. Distinguish between physical and chemical changes.
Chapter 7, Lesson 2, Video C, SE page 145; Critical Thinking, SE page 147; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; Process Skill, SE page 153

Physical Science
Energy
5.14.1 Know that energy exists in many forms. a. Demonstrate and explain how energy can change form.
Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 159; Lesson 2, Video A, SE page 163; Video B, SE page 164; Video C, SE page 165; Lesson 3, Video A, SE page 171; Video B, SE page 172; Video C, SE page 173; Critical Thinking, SE page 175; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156

Physical Science
Energy
5.14.1 Know that energy exists in many forms. b. Differentiate between potential and kinetic energy.
Chapter 8, Lesson 1, Video B, SE page 158; Critical Thinking, SE page 161; Process Skill, SE page 161; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156

Physical Science
Energy
5.14.2 Recognize the characteristics of light energy and sound energy.
Level C: Chapter 8, Lesson 2, Video A, SE page 163; Video B, SE page 164; Process Skill, SE page 167
See also Level A: Chapter 9, Lesson 1, Video A, SE page 179; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174
See also Level B: Chapter 8, Lesson 2, Video A, SE page 163; Video C, SE page 165

Physical Science
Energy
5.14.3 Recognize the properties and uses of magnets. a. Explore and describe the uses of magnets.
See Level B: Chapter 9, Lesson 2, Video A, SE page 185

Physical Science
Energy
5.14.3 Recognize the properties and uses of magnets. b. Demonstrate and describe a magnetic field.
See Level B: Chapter 9, Lesson 2, Video A, SE page 185

Physical Science
Energy
5.14.4 Recognize the basic concept of electricity. a. Construct and explain a parallel circuit.
Level C: Chapter 8, Lesson 3, Video A, SE page 171
See also Level A: Chapter 9, Lesson 2, Video B, SE page 188; Process Skill, SE page 191
See also Level B: Chapter 9, Lesson 2, Video C, SE page 181; Critical Thinking, SE page 183

Physical Science
Energy
5.14.4 Recognize the basic concept of electricity. b. Compare series and parallel circuits.
See Level A: Chapter 9, Lesson 2, Video B, SE page 188; Process Skill, SE page 191
See also Level B: Chapter 9, Lesson 2, Video C, SE page 181; Critical Thinking, SE page 183

Physical Science
Energy
5.14.4 Recognize the basic concept of electricity. c. Explain the use of a specific type of electrical circuit.
Level C: Chapter 9, Lesson 1, Video A, SE page 171; Video B, SE page 172
See also Level B: Chapter 9, Lesson 1, Video C, SE page 181; Critical Thinking, SE page 183