

SUGGESTED PACING

SCIENCE INQUIRY AND APPLICATION

Content Statements: During the years of PreK-4, all students must become proficient in the use of the following scientific processes, with appropriate laboratory safety techniques, to construct their knowledge and understanding in all science content areas:

- Observe and ask questions about the natural environment
- Plan and conduct simple investigations
- Employ simple equipment and tools to gather data and extend the senses
- Use appropriate mathematics with data to construct reasonable explanations
- Communicate about observations, investigations and explanations
- Review and ask questions about the observations and explanations of others

STRAND: EARTH AND SPACE SCIENCE (ESS)

Topic: Daily and Seasonal Changes

This topic focuses on observing, exploring, describing and comparing weather changes, patterns in the sky and changing seasons.

Content Statements: Weather Changes are both long and short term.

- Weather Changes occur throughout the day and from day to day.
- Air is a non-living substance that surrounds Earth and wind is moving air
- Wind, temperature and precipitation can be used to document observable weather changes.
- Yearly weather changes (seasons) are observable patterns in daily weather changes

PRINT RESOURCES

ScienceFusion

- Unit 1, TE pages, 1-32
- Unit 7, TE pages, 212-239; SE pages 81-96
- Unit 7, Big Book of Science Vocabulary (pages 20-22)
- Unit 7, Big Book of Science Songs and Rhymes (pages 14, 16)
 - Science Songs CD, Track 10, Track 12
- Unit 7, Picture Sorting Cards 5, 39-42, 55-58
- Unit 7, Science and Engineering Leveled Readers
 - On-Level/Below Level - *How Can We Describe Weather and Seasons*
 - Above Level - *Sun, Storm, Sun Again*

DIGITAL RESOURCES

ScienceFusion

- Unit 1, Digital Lessons
- Unit 7, Lesson 20 Digital Lesson
- Unit 7, Lesson 21 Digital Lesson
- Unit 7, Lesson 22 Digital Lesson
- Unit 7, Virtual Lab "What Can We Observe About Weather?"

SCIENCE AND ACADEMIC VOCABULARY

Unit 1: Balance, Compare, Hand Lens, Hear, Measure, Measuring Cup, Observe, Ruler, See, Smell, Sort, Taste, Thermometer, Touch
Unit 7: Cloudy, Fall, Rainy, Snowy, Spring, Summer, Sunny, Thermometer, Weather, Windsock, Windy, Winter

DIFFERENTIATION

Basic (Extra Support)

- Unit 7 TE pages 220; 228; 238

Advanced (Enrichment)

- Unit 7 TE pages 220; 228; 238
- Unit 7 Trade Book Reading - TE page 211

FIELD EXPERIENCE CONNECTIONS

Fall Months only: Nature Center at Shaker Lakes' ASK(Applied Science for Kids): Nature Alive

Program Details: Standards-based programming guides students through the use of analysis and observation to determine what makes something alive. To prepare in advance In advance, plan to attend the professional development session to receive the activity kit (hands on activities and experiments) and receive the pre- and post-visit activities.

For information contact: Raja Byrnside 216-321-5935 x243 or email byrnside@shakerlakes.org

INQUIRY SKILLS	
<ul style="list-style-type: none"> • Compare • Design a Way to Solve a Problem 	<ul style="list-style-type: none"> • Infer • Measure • Observe • Sequence
HANDS-ON INQUIRY AND APPLICATION	
<ul style="list-style-type: none"> • “Observe the Weather” (Flipchart page 14, TE pages 208; 219) 	<ul style="list-style-type: none"> • “Measure Temperature” (Flipchart page 15, TE pages 208; 227) • “How Can We Keep Things Warm” (TE pages 208; 237)
ASSESSMENTS/PROGRESS MONITORING	ASSESSMENT GUIDE
<ul style="list-style-type: none"> • Sum it Up <ul style="list-style-type: none"> ○ Lesson 20 - SE page 86, TE page 218 ○ Lesson 21 - SE page 90, TE page 226 ○ Lesson 22 - SE page 96, TE page 236 • Unit 7 Wrap-Up - TE page 240 • Unit 7 Performance Assessment - TE page 240 	
ACADEMIC CONNECTIONS TO OTHER DISCIPLINES: ELA	
<p>Journeys</p> <ul style="list-style-type: none"> • Make Connections - TE pages 220-221 <ul style="list-style-type: none"> ○ Drama - Act out Kinds of Weather ○ Language Arts - Tell a Weather Story ○ Writing - Write a Descriptive Poem • Make Connections - TE pages 228-229 <ul style="list-style-type: none"> ○ Writing - Write a Hot and Cold Poem • Make Connections - TE pages 238-239 <ul style="list-style-type: none"> ○ Drama - Act Out the Seasons ○ Language Arts - Describe Seasonal Changes 	<p>Journeys Connections:</p> <ul style="list-style-type: none"> • Lesson 12, Whole Group - Big Book - <i>Snow</i> (T130) • Lesson 12, Small Group - Vocabulary Reader - <i>Animals in the Snow</i> (T174) • Lesson 12, Small Group - On Level Reader - <i>Bears Through the Winter</i> - (T181) • Lesson 12, Small Group - Advanced Reader - <i>No Snow!</i> (T182) • Lesson 25, Whole Group - Big Book - <i>Pie in the Sky</i> (T412)
ACADEMIC CONNECTIONS TO OTHER DISCIPLINES: MATH	
<p>Math Expressions</p> <ul style="list-style-type: none"> • Make Connections - TE pages 228 <ul style="list-style-type: none"> ○ Math - Make a Graph • Make Connections - TE pages 238 <ul style="list-style-type: none"> ○ Math - Make a Picture Graph 	

SUGGESTED PACING	
<p>STRAND: EARTH AND SPACE SCIENCE (ESS) Topic: Daily and Seasonal Changes This topic focuses on observing, exploring, describing and comparing weather changes, patterns in the sky and changing seasons. Content Statements: The moon, sun and stars can be observed at different times of the day or night.</p> <ul style="list-style-type: none"> • The moon, sun, and stars are in different positions at different times of the day/night. Sometimes the moon is visible at night, sometimes during the day, sometimes not at all. The observable shape of the moon changes in size slowly throughout the day of each month. The sun is only visible during the day. • The sun's position in the sky changes in a single day and from season to season. Stars are visible at night. Some are visible in the evening or morning and some are brighter than others. • Changes in the position of the sun in the sky can be measured and recorded at different times during the school day... This data can be compared from month to month to monitor changes. 	
PRINT RESOURCES	DIGITAL RESOURCES
<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Unit 5, TE pages, 154-169 • Unit 5, Big Book of Science Vocabulary, pages 15-16 • Unit 5, Big Book of Science Songs and Rhymes, page 18 <ul style="list-style-type: none"> ○ Science Songs CD, Track 12 • Unit 5, Science and Engineering Leveled Readers <ul style="list-style-type: none"> ○ On-Level/Below Level - <i>What's In the Sky?</i> ○ Above Level - <i>Patterns in the Sky</i> 	<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Unit 5, Lesson 15 Digital Lesson • Unit 5, Lesson 16 Digital Lesson • Unit 5 Virtual Lab "How Do Magnifiers Work?"
SCIENCE AND ACADEMIC VOCABULARY	
<p>Clouds, Moon, Sky, Stars, Sun</p>	
DIFFERENTIATION	FIELD EXPERIENCE CONNECTIONS
<p>Basic (Extra Support)</p> <ul style="list-style-type: none"> • Unit 5 TE pages 160, 168 <p>Advanced (Enrichment)</p> <ul style="list-style-type: none"> • Unit 5 TE pages 160, 168 • Unit 5 Trade Book Reading - TE page 153 	<p>Fall Months only: Nature Center at Shaker Lakes' ASK(Applied Science for Kids): Nature Alive Program Details: Standards-based programming guides students through the use of analysis and observation to determine what makes something alive. To prepare in advance In advance, plan to attend the professional development session to receive the activity kit (hands on activities and experiments) and receive the pre- and post-visit activities. For information contact: Raja Byrnside 216-321-5935 x243 or email byrnside@shakerlakes.org</p>
INQUIRY SKILLS	
<ul style="list-style-type: none"> • Compare • Predict 	
HANDS-ON INQUIRY AND APPLICATION	
<ul style="list-style-type: none"> • "How Does the Sky Change" (TE pages 150; 159) • "Compare Day and Night Sky" (Flipchart page 11, TE pages 150; 167) 	
ASSESSMENTS/PROGRESS MONITORING	ASSESSMENT GUIDE
<ul style="list-style-type: none"> • Sum it Up <ul style="list-style-type: none"> ○ Lesson 15 - SE page 62, TE page 158 ○ Lesson 16 - SE page 66, TE page 166 • Unit 5 Wrap-Up - TE page 170 • Unit 5 Performance Assessment - TE page 170 	
ACADEMIC CONNECTIONS TO OTHER DISCIPLINES	
<p>ELA: Journeys</p> <ul style="list-style-type: none"> • Make Connections - TE page 160-161 <ul style="list-style-type: none"> ○ Language Arts - Sing a Sunny Song ○ Drama - Role Play Wake-Up Activities • Make Connections - TE page 168-169 <ul style="list-style-type: none"> ○ Writing - Write on Illustrated Stars 	<p>MATH: Math Expressions</p> <ul style="list-style-type: none"> • Make Connections - TE pages 160 <ul style="list-style-type: none"> ○ Math - Sequence Daily Events • Make Connections - TE pages 168 • Math - Count the Stars in the Night Sky • Math Expressions Connection: <ul style="list-style-type: none"> ○ Unit 5 Lesson 2: Stars in the Night Sky MX TE pages 465-470 ○ Unit 5 Lesson 3: Stars in the Night Sky MX TE pages 471-476

SUGGESTED PACING	
<p>STRAND: LIFE SCIENCE (LS) Topic: Physical and Behavioral Traits of Living Things This topic focuses on observing, exploring, describing and comparing living things in Ohio.</p> <p>Content Statements: Living things are different from non-living things.</p> <ul style="list-style-type: none"> • Living things include anything that is alive or has ever been alive. They have specific characteristics and traits. • Living things grow and reproduce. They are found almost everywhere in the world. • There are different kinds of living things that are found in different places. • Living things respond to stimuli. • Animals need food; plants make their own food. 	
PRINT RESOURCES	DIGITAL RESOURCES
<p><i>ScienceFusion</i></p> <p>Unit 2, Lesson 4 (TE pages 40-47)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 4) • Big Book of Science Songs and Rhymes (page 5) • Picture Sorting Cards 1, 2, 4, 14, 26, 49, 50 <p>Unit 2, Lesson 6 (TE pages 56-64)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 6) • Science Songs CD, Track 1-2 • Picture Sorting Cards 10, 13, 16, 23, 26, 28, 32, 38 <p>Unit 2, Lesson 7 (TE pages 66-73)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 7) • Big Book of Science Songs and Rhymes (page 24) • Picture Sorting Cards 9, 14, 18, 26, 32, 33, 34, 35, 36, 37 <p>Unit 2, Lesson 8 (TE pages 74-81)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 8) • Big Book of Science Songs and Rhymes (page 20) • Science Songs CD, Track 3 • Picture Sorting Cards 9, 11, 21-30 • Science and Engineering Leveled Readers <ul style="list-style-type: none"> ○ On-Level/Below Level - <i>What Can We Learn About Animals?</i> ○ Above Level - <i>Animal Groups</i> <p>Unit 3, Lesson 11 (TE pages 90-97, 98-105, 106-113, 114-121)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 5, 9-12) • Big Book of Science Songs and Rhymes (page 21, 23) • Science Songs CD, Track 4 • Picture Sorting Cards 49-51, 52-54 • Science and Engineering Leveled Readers <ul style="list-style-type: none"> ○ On-Level/Below Level - <i>What Are Plants?</i> ○ Above Level - <i>Inside a Seed</i> <p>Unit 4, Lesson 13 (TE pages 130-137)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 13) • Science Songs CD, Track 6 • Picture Sorting Cards 31, 36, 37, 43, 44, 47 	<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Unit 2, Lesson 4 Digital Lesson • Unit 2, Lesson 6 Digital Lesson • Unit 2, Lesson 7 Digital Lesson • Unit 2, Lesson 8 Digital Lesson • Unit 2 Virtual Lab "What Can Your Senses Tell You About Living Things?" • Unit 3, Lesson 9 Digital Lesson • Unit 3, Lesson 10 Digital Lesson • Unit 3, Lesson 11 Digital Lesson • Unit 3, Lesson 12 Digital Lesson • Unit 3 Virtual Lab "Why Do Plants Grow?" • Unit 4, Lesson 13 Digital Lesson
SCIENCE AND ACADEMIC VOCABULARY	
<p>Adult Plant, Air, Feathers, Flower, Food, Fruit, Fur, Grass, Habitat, Leaf, Life Cycle, Light, Living Things, Nonliving Things, Roots, Scales, Seedling, Seeds, Shelter, Shrub, Soil, Space To Grow, Sprout, Stem, Tree, Water</p>	
DIFFERENTIATION	FIELD EXPERIENCE CONNECTIONS
<p>Basic (Extra Support)</p> <ul style="list-style-type: none"> • TE pages 46, 64, 80, 96, 104, 112, 120, 136 <p>Advanced (Enrichment)</p> <ul style="list-style-type: none"> • TE pages 46, 64, 80, 96, 104, 112, 120, 136 • Trade Book Reading - TE page 39, 89, 129 	<p>Fall Months only: Nature Center at Shaker Lakes' ASK (Applied Science for Kids): Nature Alive</p> <p>Program Details: Standards-based programming guides students through the use of analysis and observation to determine what makes something alive. To prepare in advance In advance, plan to attend the professional development session to receive the activity kit (hands on activities and experiments) and receive the pre- and post-visit activities.</p> <p>For information contact: Raja Byrnside 216-321-5935 x243 or email byrnside@shakerlakes.org</p>

INQUIRY SKILLS	
<ul style="list-style-type: none"> • Classify • Compare • Infer • Observe • Predict • Sequence 	
HANDS-ON INQUIRY AND APPLICATION	
<ul style="list-style-type: none"> • “Sort Living and Nonliving Things” (Flipchart page 4, TE pages 36, 45) • “Sort Animals” (Flipchart page 5, TE pages 36, 63) • “What Does Our Pet Need?” (TE pages 36, 71) • “How Do Animals Change As They Grow?” (TE pages 36, 79) • “How Are Plants Alike and Different?” (TE pages 86, 95) • “Observe a Plant’s Needs” (Flipchart page 6, TE pages 86, 103) • “Compare Plant Parts” (Flipchart page 7, TE pages 86, 111) • “Observe Plants Grow” (Flipchart page 8, TE pages 86, 119) • “Make a Model Terrarium” (Flipchart page 9, TE pages 126, 135) 	
ASSESSMENTS/PROGRESS MONITORING	
<ul style="list-style-type: none"> • Sum it Up <ul style="list-style-type: none"> ○ Unit 2, Lesson 4 - SE page 16, TE page 44 ○ Unit 2, Lesson 6 - SE page 26, TE page 62 ○ Unit 2, Lesson 7 - SE page 30, TE page 70 ○ Unit 2, Lesson 8 - SE page 34, TE page 78 ○ Unit 3, Lesson 9 - SE page 38, TE page 94 ○ Unit 3, Lesson 10 - SE page 42, TE page 102 ○ Unit 3, Lesson 11 - SE page 46, TE page 110 	<ul style="list-style-type: none"> • Sum it Up <ul style="list-style-type: none"> ○ Unit 3, Lesson 12 - SE page 50, TE page 118 ○ Unit 4, Lesson 13 - SE page 54, TE page 134 • Unit 2 Wrap-Up - TE page 82 • Unit 2 Performance Assessment - TE page 82 • Unit 3 Wrap-Up - TE page 122 • Unit 3 Performance Assessment - TE page 122
ACADEMIC CONNECTIONS TO OTHER DISCIPLINES	
<p>ELA: Journeys</p> <ul style="list-style-type: none"> • Make Connections: TE page 47 <ul style="list-style-type: none"> ○ Language Arts: Classify Things in a Poem • Make Connections: TE page 65 <ul style="list-style-type: none"> ○ Writing: Write Riddles • Make Connections: TE page 73 <ul style="list-style-type: none"> ○ Language Arts: Play an Animal Memory Game • Make Connections: TE page 80 <ul style="list-style-type: none"> ○ Writing: Make an Illustrated Animal Book • Make Connections: TE page 96 <ul style="list-style-type: none"> ○ Writing: Write and Acrostic Poem ○ Language Arts: Write a Story About Plants • Make Connections: TE page 104-105 <ul style="list-style-type: none"> ○ Writing: Make a Plant Needs Book ○ Drama: Act Out Caring for Plants • Make Connections: TE page 113 <ul style="list-style-type: none"> ○ Language Arts: Write a Play About Plant Parts • Make Connections: TE page 120-121 <ul style="list-style-type: none"> ○ Drama: Recite an Action Rhyme ○ Drama: Act Out How a Seed Sprouts • Make Connections: TE page 136-137 <ul style="list-style-type: none"> ○ Writing: Write a Habitat Story ○ Language Arts: Complete Sentence Frames <p><i>JOURNEYS CONNECTIONS</i></p> <ul style="list-style-type: none"> • Lesson 3, Whole Group: Read Aloud Book: I Have a Pet! (T202) • Lesson 3, Small Group: Vocabulary Reader: The Puppy (T268) • Lesson 3, Small Group: Leveled Reader: My Dog! (T274) • Lesson 3, Small Group: Leveled Reader: My Cat! (T275) 	<p><i>JOURNEYS CONNECTIONS cont.</i></p> <ul style="list-style-type: none"> • Lesson 3, Small Group: Leveled Reader: Lola, the Muddy Dog (T276) • Lesson 6, Small Group: On Level Reader: My Pet (T87) • Lesson 7, Whole Group: Big Book: Mice Squeak, We Speak (T130) • Lesson 7, Whole Group: Informational Text: The Fort Worth Zoo (T156) • Lesson 7, Small Group: Vocabulary Reader: On the Farm (T174) • Lesson 7, Small Group: Struggling Reader: A Walk in the Woods (T180) • Lesson 7, Small Group: On Level Reader: At the Zoo (T181) • Lesson 7, Small Group: Advanced Reader: Winter Sleep (T182) • Lesson 8, Whole Group: Read Aloud Book: Jonathan and His Mommy (T202) • Lesson 8, Whole Group: Big Book: Move! (T224) • Lesson 8, Whole Group: Folk Tale: The Hare & the Tortoise (T250) • Lesson 8, Small Group: Struggling Reader: Let’s Climb (T274) • Lesson 8, Small Group: On Level Reader: At the Aquarium (T275) • Lesson 8, Small Group: Advanced Reader: In the Rain (T276) • Lesson 10, Whole Group: Read Aloud Book: David’s Drawings (T390) • Lesson 10, Whole Group: Big Book: Mouse Shapes (T412) • Lesson 12, Whole Group: Big Book: Snow (T130) • Lesson 12, Small Group: Vocabulary Reader: Animals in the Snow (T174) • Lesson 12, Small Group: On Level Reader: Bears Through the Winter: (T181) • Lesson 12, Small Group: Advanced Reader: No Snow! (T182) • Lesson 13, Whole Group: Read Aloud Book: A Zebra’s World (T202) • Lesson 13, Whole Group: Big Book: What Do You Do With a Tail Like This? (T224) • Lesson 13, Whole Group: Poetry: Poems About Animals (T250) • Lesson 13, Small Group: Vocabulary Reader: Lots of Birds (T268) • Lesson 13, Small Group: Struggling Reader: The Pet Show (T274) • Lesson 13, Small Group: On Level Reader: My Flower Garden (T275) • Lesson 13, Small Group: Advanced Reader: In the Desert (T276)

ACADEMIC CONNECTIONS TO OTHER DISCIPLINES *cont.*

MATH: Math Expressions

- Make Connections - TE pages 46
- Math - Identify Living and Nonliving Things
- *Math Expressions Connections:*
 - Unit 1 Lesson 11: Count from 1 to 10 MX TE pages 55-58
 - Unit 1 Lesson 12: Objects and Numbers Through 10 MX TE pages 59-64
 - Unit 1 Lesson 13: Practice Numbers 1-10 MX TE pages 65-68
 - Unit 1 Lesson 14: Number of Objects in a Group MX TE pages 69-76
 - Unit 1 Lesson 15: Objects and Numbers Through 10 MX TE pages 77-80
 - Unit 1 Lesson 17: More Objects and Numbers Through 10 MX TE pages 87-90
 - Unit 1 Lesson 18: Focus on Mathematical Practices MX TE pages 91-96
- Make Connections - TE pages 64
- Math - Make an Animal Picture Graph
- Make Connections - TE pages 72
- Math - Solve Problems About Feeding Pets
- *Math Expressions Connections:*
 - Unit 5 Lesson 22: Compare Weight and Capacity MX TE pages 561-564
 - Unit 5 Lesson 23: Focus on Mathematical Practices MX TE pages 317-322
- Make Connections - TE pages 81
- Math - Find the Missing Step
- Make Connections - TE pages 97
- Math - Make a Picture Graph
- Math - Play a Sort-It-Out Game
- *Math Expressions Connections:*
 - Unit 1 Lesson 11: Count from 1 to 10 MX TE pages 55-58
 - Unit 2 Lesson 13: Identify Triangles MX TE pages 159-164
 - Unit 2 Lesson 17: Identify Hexagons MX TE pages 177-182
 - Unit 2 Lesson 20: Focus on Mathematical Practices MX TE pages 191-196
 - Unit 3 Lesson 10: Explore Classifying MX TE pages 263-268
 - Unit 3 Lesson 12: More Attributes: Shape, Size, and Color MX TE pages 275-280
 - Unit 3 Lesson 21: Focus on Mathematical Practices MX TE pages 317-322
 - Unit 4 Lesson 1: Numbers 1-10 and Math Stories: Grocery Store Scenario MX TE pages 329-334
- Make Connections - TE pages 105
- Math - Figure Out the Right Amount
- *Math Expressions Connections:*
 - Unit 5 Lesson 21: Compare Length and Compare Height MX TE pages 557-560
 - Unit 5 Lesson 22: Compare Weight and Capacity MX TE pages 561-564
 - Unit 5 Lesson 23: Focus on Mathematical Practices MX TE pages 317-322
- Make Connections - TE pages 113
- Math - Measure the Amount of Water One Plant Takes In
- *Math Expressions Connection:*
 - Unit 5 Lesson 21: Compare Length and Compare Height MX TE pages 557-560
 - Unit 5 Lesson 22: Compare Weight and Capacity MX TE pages 561-564
 - Unit 5 Lesson 23: Focus on Mathematical Practices MX TE pages 317-322
- Make Connections - TE pages 120-121
- Math - Make a Plant-Growth Chart
- *Math Expressions Connections:*
 - Unit 5 Lesson 21: Compare Length and Compare Height MX TE pages 557-560
 - Unit 5 Lesson 23: Focus on Mathematical Practices MX TE pages 317-322
- Math - Count the Number of Sprouts
- *Math Expressions Connections:*
 - Unit 1 Lesson 11: Count from 1 to 10 MX TE pages 55-58
 - Unit 1 Lesson 12: Objects and Numbers Through 10 MX TE pages 59-64
 - Unit 1 Lesson 13: Practice Numbers 1-10 MX TE pages 65-68
 - Unit 1 Lesson 14: Number of Objects in a Group MX TE pages 69-76
 - Unit 1 Lesson 15: Objects and Numbers Through 10 MX TE pages 77-80
 - Unit 1 Lesson 17: More Objects and Numbers Through 10 MX TE pages 87-90
 - Unit 1 Lesson 18: Focus on Mathematical Practices MX TE pages 91-96
 - Unit 2 Lesson 1: Find Numbers 1-10: Neighborhood Scene MX TE pages 103-108

SUGGESTED PACING	
<p>STRAND: LIFE SCIENCE (LS) Topic: Physical and Behavioral Traits of Living Things This topic focuses on observing, exploring, describing and comparing living things in Ohio.</p> <p>Content Statements: Living things are different from non-living things.</p> <ul style="list-style-type: none"> • Living things have physical traits and behaviors, which influence their survival. • Living things are made up of a variety of structures. Some of these structures and behaviors influence their survival. 	
PRINT RESOURCES	
<p><i>ScienceFusion</i></p> <p>Unit 2, Lesson 6 (TE pages 56-64)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 6) • Science Songs CD, Track 1-2 • Picture Sorting Cards 10, 13, 16, 23, 26, 28, 32, 38 <p>Unit 2, Lesson 7 (TE pages 66-73)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 7) • Big Book of Science Songs and Rhymes (page 24) • Picture Sorting Cards 9, 14, 18, 26, 32, 33, 34, 35, 36, 37 <p>Unit 2, Lesson 8 (TE pages 74-81)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 8) • Big Book of Science Songs and Rhymes (page 20) • Science Songs CD, Track 3 • Picture Sorting Cards 9, 11, 21-30 • Science and Engineering Leveled Readers <ul style="list-style-type: none"> ○ On-Level/Below Level - <i>What Can We Learn About Animals?</i> ○ Above Level - <i>Animal Groups</i> <p>Unit 3, Lesson 11 (TE pages 90-97, 98-105, 106-113, 114-121)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 5, 9-12) • Big Book of Science Songs and Rhymes (page 21, 23) • Science Songs CD, Track 4 • Picture Sorting Cards 49-51, 52-54 • Science and Engineering Leveled Readers <ul style="list-style-type: none"> ○ On-Level/Below Level - <i>What Are Plants?</i> ○ Above Level - <i>Inside a Seed</i> 	<p><i>ScienceFusion cont.</i></p> <p>Unit 3, Lesson 12 (TE pages 114-121)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 12) • Picture Sorting Cards 51-54 <p>Unit 4, Lesson 13 (TE pages 130-137)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 13) • Science Songs CD, Track 6 • Picture Sorting Cards 31, 36, 37, 43, 44, 47 <p>Unit 4, Lesson 14 (TE pages 138-145)</p> <ul style="list-style-type: none"> • Big Book of Science Vocabulary (page 14) • Big Book of Science Songs and Rhymes (page 8) • Science Songs CD, Track 5 • Picture Sorting Cards 9, 14, 17, 18, 32, 36, 37, 38
DIGITAL RESOURCES	SCIENCE AND ACADEMIC VOCABULARY
<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Unit 2, Lesson 6 Digital Lesson • Unit 2, Lesson 7 Digital Lesson • Unit 3, Lesson 11 Digital Lesson • Unit 3, Lesson 12 Digital Lesson • Unit 4, Lesson 13 Digital Lesson • Unit 4, Lesson 14 Digital Lesson 	<p>Adult Plant, Air, Feathers, Flower, Food, Fur, Habitat, Scales, Seedling, Seeds, Shelter, Sprout, Water</p>
DIFFERENTIATION	FIELD EXPERIENCE CONNECTIONS
<p>Basic (Extra Support)</p> <ul style="list-style-type: none"> • TE pages 64, 72, 120, 144 <p>Advanced (Enrichment)</p> <ul style="list-style-type: none"> • TE pages 64, 72, 120, 144 • Trade Book Reading - TE page 39, 129 	

INQUIRY SKILLS	
<ul style="list-style-type: none"> • Communicate 	<ul style="list-style-type: none"> • Compare
<ul style="list-style-type: none"> • Observe 	<ul style="list-style-type: none"> • Predict
<ul style="list-style-type: none"> • Sequence 	
HANDS-ON INQUIRY AND APPLICATION	
<ul style="list-style-type: none"> • "Sort Animals" (Flipchart page 5, TE pages 36, 63) • "What Does Our Pet Need?" (TE pages 36, 71) • "Observe a Plant's Needs" (Flipchart page 6, TE pages 86, 103) • "Make a Model Terrarium" (Flipchart page 9, TE pages 126, 135) • Tell About Animals and Plants" (Flipchart page 10, TE page 126, 143) 	
ASSESSMENTS/PROGRESS MONITORING	
<ul style="list-style-type: none"> • Sum it Up <ul style="list-style-type: none"> ○ Unit 2, Lesson 6 - SE page 26, TE page 62 ○ Unit 2, Lesson 7 - SE page 30, TE page 70 ○ Unit 3, Lesson 12 - SE page 50, TE page 118 ○ Unit 4, Lesson 13 - SE page 54, TE page 134 ○ Unit 4, Lesson 14 - SE page 58, TE page 142 	<ul style="list-style-type: none"> • Unit 4 Wrap-Up - TE page 146 • Unit 4 Performance Assessment - TE page 146
ACADEMIC CONNECTIONS TO OTHER DISCIPLINES	
<p>ELA: Journeys</p> <ul style="list-style-type: none"> • Make Connections - TE page 465 <ul style="list-style-type: none"> ○ Writing - Write Riddles • Make Connections - TE page 73 <ul style="list-style-type: none"> ○ Language Arts - Play an Animal Memory Game • Make Connections - TE page 120-121 <ul style="list-style-type: none"> ○ Drama - Recite an Action Rhyme ○ Drama - Act Out How a Seed Sprouts 	<p>ELA: Journeys <i>cont.</i></p> <ul style="list-style-type: none"> • Make Connections - TE page 136-137 <ul style="list-style-type: none"> ○ Writing - Write a Habitat Story ○ Language Arts - Complete Sentence Frames • Make Connections - TE page 144-145 <ul style="list-style-type: none"> ○ Writing - Write an Illustrated Response ○ Language Arts - Write a Poem
JOURNEYS CONNECTIONS	
<ul style="list-style-type: none"> • Lesson 14, Whole Group: Read Aloud Book: Home for a Tiger, Home for a Bear (T296) • Lesson 14, Whole Group: Big Book: Turtle Splash! (T318) • Lesson 14, Whole Group: Informational Text: Where Animals Live (T344) • Lesson 14, Small Group: Vocabulary Reader: How Many Ducks? (T362) • Lesson 14, Small Group: Struggling Reader: At the Pond (T368) • Lesson 14, Small Group: On Level Reader: Splash! (T369) • Lesson 14, Small Group: Advanced Reader: Look in the Woods (T370) • Lesson 16, Whole Group: Read Aloud Book: Dear Mr. Blueberry (T14) • Lesson 16, Whole Group: Big Book: What is Science? (T36) • Lesson 16, Small Group: Struggling Reader: Animals in the Woods (T86) • Lesson 16, Small Group: On Level Reader: My Yard (T87) • Lesson 16, Small Group: Advanced Reader: In the Tree (T88) • Lesson 17, Whole Group: Big Book: From Caterpillar to Butterfly (T130) • Lesson 17, Small Group: Vocabulary Reader: Bugs! (T174) • Lesson 17, Small Group: Struggling Reader: Bug Parts (T180) • Lesson 17, Small Group: On Level Reader: Find the Bug (T181) • Lesson 17, Small Group: Advanced Reader: Rosie & the Bug Jar (T182) • Lesson 18, Small Group: Struggling Reader: The Sea (T274) • Lesson 18, Small Group: On Level Reader: Let's Swim (T275) • Lesson 18, Small Group: Advanced Reader: Be the Sea (T276) • Lesson 19, Small Group: On Level Reader: Summer Camp (T369) • Lesson 20, Small Group: Vocabulary Reader: Curious About the Animal Park (T456) • Lesson 20, Small Group: Struggling Reader: Curious George Visits Animal Friends (T462) • Lesson 20, Small Group: On Level Reader: Curious George and the Hungry Animals (T463) • Lesson 20, Small Group: Advanced Reader: Curious George Visits the Woods (T464) • Lesson 22, Whole Group: Read Aloud Book: A Tiger Grows Up (T108) • Lesson 22, Whole Group: Informational Text: <i>What Can a Baby Animal Do?</i> (T156) 	

ACADEMIC CONNECTIONS TO OTHER DISCIPLINES *cont.**JOURNEYS CONNECTIONS cont.*

- Lesson 23, Whole Group: Read Aloud Book: Oscar and the Frog (T202)
- Lesson 23, Whole Group: Big Book: Zinnia's Flower Garden (T224)
- Lesson 23, Whole Group: Informational Text: Growing Sunflowers (T250)
- Lesson 23, Small Group: Vocabulary Reader: The Flower (T268)
- Lesson 23, Small Group: Struggling Reader: The Vegetable Garden: (T274)
- Lesson 23, Small Group: On Level Reader: In the Garden (T275)
- Lesson 23, Small Group: Advanced Reader: *A City Garden* (T276)
- Lesson 24, Whole Group: Read Aloud Book: Red Eyes or Blue Feathers (T296)
- Lesson 24, Whole Group: Big Book: Chameleon, Chameleon (T318)
- Lesson 24, Whole Group: Informational Text: Amazing Animal Bodies (T344)
- Lesson 24, Small Group: Vocabulary Reader: The Lion (T362)
- Lesson 24, Small Group: Struggling Reader: *Bugs for Dinner* (T368)
- Lesson 24, Small Group: On Level Reader: *Feeding Our Pets* (T369)
- Lesson 24, Small Group: Advanced Reader: *What Animals Eat* (T370)
- Lesson 25, Whole Group: Big Book: *Pie in the Sky* (T412)

MATH: Math Expressions

- Make Connections - TE pages 46
- Math - Identify Living and Nonliving Things
- *Math Expressions Connections:*
 - Unit 1 Lesson 11: Count from 1 to 10 MX TE pages 55-58
 - Unit 1 Lesson 12: Objects and Numbers Through 10 MX TE pages 59-64
 - Unit 1 Lesson 13: Practice Numbers 1-10 MX TE pages 65-68
- Make Connections - TE pages 64
- Math - Make an Animal Picture Graph
- Make Connections - TE pages 72
- Math - Solve Problems About Feeding Pets
- *Math Expressions Connections:*
 - Unit 5 Lesson 22: Compare Weight and Capacity MX TE pages 561-564
 - Unit 5 Lesson 23: Focus on Mathematical Practices MX TE pages 317-322
- Make Connections - TE pages 120-121
- Math - Make a Plant-Growth Chart
- *Math Expressions Connections:*
 - Unit 5 Lesson 21: Compare Length and Compare Height MX TE pages 557-560
 - Unit 5 Lesson 23: Focus on Mathematical Practices MX TE pages 317-322
- Math - Count the Number of Sprouts
- *Math Expressions Connections:*
 - Unit 1 Lesson 11: Count from 1 to 10 MX TE pages 55-58
 - Unit 1 Lesson 12: Objects and Numbers Through 10 MX TE pages 59-64
 - Unit 1 Lesson 13: Practice Numbers 1-10 MX TE pages 65-68
 - Unit 1 Lesson 14: Number of Objects in a Group MX TE pages 69-76
 - Unit 1 Lesson 15: Objects and Numbers Through 10 MX TE pages 77-80
 - Unit 1 Lesson 17: More Objects and Numbers Through 10 MX TE pages 87-90
 - Unit 1 Lesson 18: Focus on Mathematical Practices MX TE pages 91-96
 - Unit 2 Lesson 1: Find Numbers 1-10: Neighborhood Scene MX TE pages 103-108

SUGGESTED PACING

STRAND: PHYSICAL SCIENCE (PS)

Topic: Properties of Everyday Objects and Materials

This topic focuses on the production of sound and on observing, exploring, describing and comparing the properties of objects and materials with which the student is familiar.

Content Statement: Objects and materials can be sorted and described by their properties.

- Objects can be sorted and described by the properties of the materials from which they are made. e.g., color, shape, size, temperature, odor, texture, flexibility.

Content Statements: Some objects and materials can be made to vibrate to produce sound.

- Touching, blowing, or tapping objects produces sound. The sounds that are produced vary depending on the properties of objects.
- Sound is produced when objects vibrate.

PRINT RESOURCES

ScienceFusion

Unit 1, Lesson 3 (TE pages 22-32)

- Big Book of Science Vocabulary (page 3)
- Science and Engineering Leveled Readers
 - On-Level/Below Level - *How Do You Do Science?*
 - Above Level - *How a Scientist Works*

Unit 6, Lesson 17 (TE pages 183-184)

Unit 8 (TE pages 248-257, 258-265, 266-273)

- Big Book of Science Vocabulary (page 23, 24)
- Science Songs CD, Track 13-14
- Picture Sorting Cards 2, 4
- Science and Engineering Leveled Readers
 - On-Level/Below Level - *What Can We Learn About Matter?*
 - Above Level - *Cooking Matter Changes It*

Unit 9, Lesson 26 (TE pages 282-289)

- Big Book of Science Vocabulary (page 26)
- Science Songs CD, Track 18

DIGITAL RESOURCES

ScienceFusion

- Unit 1, Lesson 3 Digital Lesson
- Unit 1 Virtual Lab "How Can We Use Our Senses?"
- Unit 8, Lesson 23 Digital Lesson
- Unit 8, Lesson 24 Digital Lesson
- Unit 8, Lesson 25 Digital Lesson
- Unit 8 Virtual Lab "How Can We Change Matter?"
- [Unit 9, Lesson 26 Digital Lesson](#)

SCIENCE AND ACADEMIC VOCABULARY

Balance, Change, Cool, Hand Lens, Heat, Matter, Measuring Cup, Ruler, Thermometer
[Sound, Vibrate](#)

DIFFERENTIATION

Basic (Extra Support)

- TE pages 30, 256, 264, 272
- [TE page 288](#)

Advanced (Enrichment)

- TE pages 30, 256, 264, 272
- Trade Book Reading - TE page 7, 247
- [TE page 288](#)
- [Trade Book Reading - TE page 281](#)

FIELD EXPERIENCE CONNECTIONS

INQUIRY SKILLS

- Compare
- Infer
- Measure
- Observe
- Predict
- Sequence
- Sort

HANDS-ON INQUIRY AND APPLICATION

- "Use Science Tools" (Flipchart page 3, TE pages 4; 29)
- "Sort Rocks" (Flipchart page 12, TE pages 174, 183)
- "Compare Objects" (Flipchart page 16, TE pages 244, 255)
- "Tell Ways to Change Objects" (Flipchart page 17, TE pages 244, 263)
- "How Does Heating Change Ice?" (TE pages 244)
- "Compare Sounds" (Flipchart page 18, TE pages 278; 287)

ASSESSMENTS/PROGRESS MONITORING

- Sum it Up
 - Unit 1, Lesson 3 - SE page 12, TE page 28
 - Unit 8, Lesson 23 - SE page 102, TE page 254
 - Unit 8, Lesson 24 - SE page 106, TE page 262
 - Unit 8, Lesson 25 - SE page 110, TE page 270
 - Unit 9, Lesson 26 - SE page 114, TE page 286
- Unit 1 Wrap-Up - TE page 32
- Unit 1 Performance Assessment - TE page 32
- Unit 8 Wrap Up - TE page 274
- Unit 8 Performance Assessment - TE page 274

ACADEMIC CONNECTIONS TO OTHER DISCIPLINES

ELA: Journeys

- Make Connections - TE page 30-31
 - Language Arts - Name the Science Tool
- Make Connections - TE page 257
 - Writing - Describe Heavy and Light
- Make Connections - TE page 264
 - Language Arts - Complete Sentences
- Make Connections - TE page 273
 - Language Arts - Discuss Poems About Water
- [Make Connections - TE page 288-289](#)
 - [Drama - Act Out Responses to Alarms](#)
 - [Writing - Make a Sounds Chart](#)

JOURNEYS CONNECTIONS

- Lesson 2, Whole Group: Read Aloud Book: Friends at School (T108)
- Lesson 9, Whole Group: Big Book: What Do Wheels Do All Day? (T323)
- Lesson 9, Small Group: Vocabulary Reader: My Bike (T363)
- Lesson 10, Whole Group: Big Book: Mouse Shapes (T417)
- Lesson 21, Whole Group: Big Book: Zin! Zin! Zin! A Violin (T41)
- Lesson 27, Whole Group: Read Aloud Book: Someone Bigger (T115)
- Lesson 29, Small Group: Vocabulary Reader: My School (T363)
- Lesson 29, Small Group: Struggling Reader: Zoom! (T368)
- Lesson 30, Small Group: Struggling Reader: *Our Class Band* (T464)

MATH: Math Expressions

- Make Connections - TE pages 30-31
- Math - Measure Standing Jumps
- Make Connections - TE pages 256-257
- Math - Sort By Size, Color, and Shape
- *Math Expressions Connections:*
 - Unit 1 Lesson 11: Count from 1 to 10 MX TE pages 55-58
 - Unit 2 Lesson 13: Identify Triangles MX TE pages 159-164
 - Unit 2 Lesson 17: Identify Hexagons MX TE pages 177-182
 - Unit 2 Lesson 20: Focus on Mathematical Practices MX TE pages 191-196
 - Unit 3 Lesson 10: Explore Classifying MX TE pages 263-268
 - Unit 3 Lesson 12: More Attributes: Shape, Size, and Color MX TE pages 275-280
 - Unit 3 Lesson 21: Focus on Mathematical Practices MX TE pages 317-322
 - Unit 4 Lesson 1: Numbers 1-10 and Math Stories: Grocery Store Scenario MX TE pages 329-334
- Math - Test Objects That Sink or Float
- Math - Make Nonstandard Measurements
- *Math Expressions Connections:*
 - Unit 5 Lesson 21: Compare Length and Compare Height MX TE pages 557-560
 - Unit 5 Lesson 22: Compare Weight and Capacity MX TE pages 561-564
 - Unit 5 Lesson 23: Focus on Mathematical Practices MX TE pages 317-322
- Make Connections - TE pages 264
- Math - Make Geometric Shapes
- *Math Expressions Connections:*
 - Unit 3 Lesson 9: Make New Shapes MX TE pages 253-262
- Make Connections - TE pages 272
- Math - Predict More or Less Time to Evaporate
- [Make Connections - TE pages 288](#)
- [Math - Make Water Instruments](#)
- *Math Expressions Connections:*
 - [Unit 5 Lesson 22: Compare Weight and Capacity MX TE pages 561-564](#)