**STRAND: LIFE SCIENCE (LS)**
**Topic: Basic Needs of Living Things**
This topic focuses on the physical needs of living things in Ohio. Energy from the sun or food, nutrients, water, shelter and air are some of the physical needs of living things.

**Content Statements:** Living things have basic needs, which are met by obtaining materials from the physical environment.
- Living things survive only in environments that meet their needs.
- Resources are necessary to meet the needs of an individual and populations of individuals. Living things interact with their physical environments as they meet those needs.
- Effects of seasonal changes within the local environment directly impact the availability of resources.

### PRINT RESOURCES
- ScienceFusion
  - Unit 5, TE pages 175A-1196
  - Unit 5, Inquiry Flip Chart pages 22-23
  - Unit 5, Science and Engineering Leveled Readers
    - On-Level/Below Level - Where Do Plants and Animals Live?
    - Above Level - A Trip to the Aquarium
  - Unit 6, Lessons 1 and 5
  - Unit 6, TE pages 199A-208A, 225A-236A
  - Unit 6, Inquiry Flip Chart page 25, 29

### DIGITAL RESOURCES
- ScienceFusion
  - Unit 5, Lesson 1 Digital Lesson
  - Unit 5, Lesson 2 Digital Lesson with Virtual Lab
  - Unit 6, Lesson 1 Digital Lesson
  - Unit 6, Lesson 5 Digital Lesson

### SCIENCE AND ACADEMIC VOCABULARY
- Environment, Food Chain, Lake, Natural Resource, Ocean, River, Rock, Shelter, Soil, Stream

### DIFFERENTIATION
**Basic (Extra Support)**
- Unit 5 Response to Intervention - TE page 173I
- Unit 5 TE pages 176, 180, 183
- Unit 6 Response to Intervention - TE page 197 K
- Unit 6 TE pages 201, 202, 205

**Advanced (Enrichment)**
- Unit 5 TE pages 176, 180, 183
- Unit 5 STEM - Inquiry Flipchart page 24, TE pages 173G, 191-192B
- Unit 6 TE pages 201, 202, 205

**English Language Learners**
- Unit 5 TE pages 173J-173K, 178, 181
- Unit 6 TE pages 197L-197M, 200

### FIELD EXPERIENCE CONNECTIONS

### INQUIRY SKILLS
- Compare
- Draw Conclusions
- Experiment
- Formulate or Use Models
- Gather, Record, Display, and Interpret Data
- Observe
- Plan and Conduct a Simple Investigation
- Sequence

### HANDS-ON INQUIRY AND APPLICATION
- "Make a Food Chain" (Flipchart page 22, TE pages 173D, 175A)
- "Plan for Pets" (Flipchart page 22, TE pages 173E, 175A)
- "What is a Terrarium?" (Flipchart page 23, TE pages 173F, 189A-190)
- "Clay in a Tray" (Flipchart page 25, TE pages 197D, 199A)
- "Do People Eat Plants?" (Flipchart page 25, TE pages 197D, 199A)
- "Pass the Salt" (Flipchart page 29, TE pages 197H, 225A)
- "Water Watch" (Flipchart page 29, TE pages 197H, 225A)

**Differentiated Inquiry**
- Unit 5, TE page 190A
  - Suggest Changes to a Terrarium (Easy)
  - Observe Pill Bugs (Average)
  - Study Pill Bug Habits (Challenging)
  - Compare Animal Environments (Challenging)
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ACADEMIC CONNECTIONS TO OTHER DISCIPLINES: MATH

Math Expressions

- Math Connection - TE page 177
- **Math Expressions Connections:**
  - Unit 4 Lesson 3: Represent and Compare Teen Numbers MX TE page 290
  - Unit 4 Lesson 12: Use Place Value to Compare Numbers MX TE pages 348-350
  - Unit 4 Lesson 16: Practice with 2-Digit Numbers MX TE pages 374-376
  - Unit 4 Lesson 18: Focus on Mathematical Practices MX TE page 387
  - Unit 8 Lesson 6: Focus on Mathematical Practices MX TE page 697

- Math Connection - TE page 204
- **Math Expressions Connections:**
  - Unit 6 Lesson 1: Explore Representing Data MX TE pages 490-492
  - Unit 6 Lesson 2: Organize Categorical Data MX TE pages 496-500
  - Unit 6 Lesson 3: Use Stair Steps to Represent Data MX TE pages 504-506
  - Unit 6 Lesson 4: Data Sets with Three Categories MX TE pages 510-512
  - Unit 6 Lesson 5: Data Collecting MX TE pages 516-519

- Make Connections - TE page 208A
- Math Connection - Solve a Math Problem (Easy)
- **Math Expressions Connections:**
  - Unit 2 Lesson 6: Addition Strategies: Counting On MX TE pages 110-114
  - Unit 2 Lesson 7: Count On from the Greater Number MX TE pages 118-120
  - Unit 2 Lesson 9: Practice Counting On MX TE page 130
  - Unit 2 Lesson 11: Subtraction with Drawings and Equations MX TE pages 142-144
  - Unit 2 Lesson 12: Practice with Subtraction MX TE pages 148-150
  - Unit 3 Lesson 1: Explore Unknowns MX TE pages 186-190
  - Unit 3 Lesson 6: Subtraction Strategies MX TE pages 220-224
  - Unit 4 Lesson 4: Visualize Teen Addition MX TE pages 294-298
  - Unit 4 Lesson 5: Teen Addition Strategies MX TE pages 302-306
  - Unit 4 Lesson 6: Investigate Doubles MX TE pages
  - Unit 4 Lesson 10: Add with Groups of Ten MX TE pages 336-340
  - Unit 4 Lesson 13: Add Tens or Ones MX TE pages 354-356
  - Unit 4 Lesson 14: Mixed Addition with Tens and Ones MX TE pages 360-364
  - Unit 4 Lesson 15: Counting On Strategy: 2-Digit Numbers MX TE pages 368-370
  - Unit 4 Lesson 16: Practice with 2-Digit Numbers MX TE pages 374, 376
  - Unit 4 Lesson 17: 2-Digit Addition Games MX TE pages 380-382
  - Unit 5 Lesson 2: Subtraction with Teen Numbers MX TE pages 406-411
  - Unit 5 Lesson 3: Mixed Practice with Teen Problems MX TE pages 414-418
  - Unit 5 Lesson 4: Small Group Practice with Teen Problems MX TE pages 422-426
  - Unit 5 Lesson 5: Teen Problems with Various Unknowns MX TE pages 430-434
  - Unit 5 Lesson 7: Count with Groups of 10 MX TE pages 446-448

- Math Connection - TE page 229
- Math Connection - TE page 232
- **Math Expressions Connections:**
  - Unit 3 Lesson 6: Subtraction Strategies MX TE pages 220-224
  - Unit 3 Lesson 7: Subtraction Stories and Games MX TE pages 228-229
  - Unit 3 Lesson 8: Practice with Subtraction Stories MX TE pages 234-238
  - Unit 3 Lesson 11: Practice with Mixed Problems MX TE pages 256-258

- Make Connections - TE page 236A
- Math Connection - Compare River Lengths (Average)
- **Math Expressions Connections:**
  - Unit 7 Lesson 12: Order by Length MX TE pages 636-638