

## Grade 3

### Module 1: My Librarian is a Camel

Activity 1 - Weather and Climate  
(Lessons 1-5)

Activity 2 - The Desert Environment  
(Lessons 6-8)

### Module 2A: Freaky Frogs

Activity 3 - The Rainforest Environment  
(Lessons 9-11)

Activity 4 - Life Cycle of the Painted Lady  
Butterfly (Lessons 12-14)

### Module 3B: Wolves in Fact and Fiction

Activity 5 - The Tundra Environment  
(Lessons 15-19)

### Module 4: Freshwater

Activity 6 - Properties of Water  
(Lessons 20-21)

Activity 7 - Water Quality (Lessons 22-23)

Activity 8 - STEM Challenge (Lesson 24)

## Grade 4

### Module 1: Native Americans in NY, Unit 2

Activity 1 - Growing Food  
Activity 2 - Germination Bags  
Activity 3 - Interdependence  
Activity 4 - Predator or Prey

### Module 2B: Animal Defense Mechanisms, Unit 1

Activity 5 - Crayfish Needs  
Activity 6 - Introducing Crayfish  
Activity 7 - Crayfish Behavior  
Activity 8 - Crayfish Inquiry

### Module 3A: Simple Machines, Force and Motion, Unit 2

Activity 9 - Inclined Plane  
Activity 10 - Lever  
Activity 11 - Screw  
Activity 12 - Wheel and Axle  
Activity 13 - Pulley  
Activity 14 - Wedge

### Module 3B: Perspectives on the American Revolution, Unit 1

Activity 15 - Background on Ben Franklin  
Activity 16 - Static Electricity  
Activity 17 - Batteries, Bulbs, and Simple  
Circuits  
Activity 18 - Conductors and Insulators  
Activity 19 - Designing Games

## Grade 5

### Module 2A: Rain Forest

Activity 1 - Three Degrees of Separation  
Activity 2 - Making and Observing Life in  
a Terrarium

### Module 4: Natural Disasters

Activity 1 & 2 - Constructing Earthquake  
Proof Buildings  
Activity 3 - Plate Tectonics, Pangea and  
Continental Drift

### Module 5B: Amazing Arctic Innovations

Activity 1 - Waste Not, Want Not  
Activity 2 - 5 - Layers of the Earth  
Activity 6 - Creating a Model  
Activity 7 & 8 - The Eight Basic Elements  
of Earth



| STEM Connection Kits | Lease Cost   |
|----------------------|--------------|
| Grade K              | \$365.00/kit |
| Grade 1              | \$365.00/kit |
| Grade 2              | \$450.00/kit |
| Grade 3              | \$450.00/kit |
| Grade 4              | \$475.00/kit |
| Grade 5              | \$450.00/kit |

**To modify your ESP budget or create an ESP  
budget, please contact:**

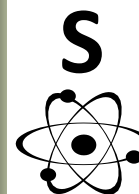
Contact Gina Vaccarella at 585-352-1140 or  
[gvaccare@monroe2boces.org](mailto:gvaccare@monroe2boces.org)

**For additional information about these kits,  
please contact ESP at:**

585-352-1140 or 1-800-832-8011



# Elementary Science Program



Science



Technology



Engineering



Mathematics

## Connection Kits



**Monroe 2-Orleans BOCES**

## Why STEM Connection Kits?

The Elementary Science Program has developed STEM Connection Kits in response to districts who are using the Engage NY ELA Modules and want to supplement the modules with science activities.

ESP has known for a long time that science and ELA work hand-in-hand. By participating in hands-on activities related to a text, student comprehension of the text is enhanced, and the student participation also helps students write about a topic in more detail and with greater confidence.



**Remember: The sole use of the STEM Connection Kits with the modules will NOT meet all of the NYS Elementary and Intermediate Science Core Curriculum requirements. ESP still offer the full range of correlated science units to meet those requirements.**

## What is STEM?

**STEM is an interdisciplinary approach to teaching and learning that integrates the content and skills of science, technology, engineering, and mathematics. Students use these integrated skills to solve real-world problems which allows for deeper and more meaningful learning.**

## Grade Level STEM Connection Kits Available

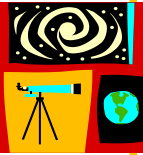
### Kindergarten

- Domain 1:** Nursery Rhymes and Fairy Tales: Rain, Rain Go Away  
Activity 1 - Temperature and Data  
Activity 2 - Rain Gauge  
Activity 3 - Weather Station
- Domain 2:** Senses  
Activity 4 - Eyes  
Activity 5 - Ears  
Activity 6 - Smell  
Activity 7 - Taste  
Activity 8 - Texture
- Domain 3:** Stories: The Three Little Pigs  
Activity 9 - Designing Houses  
Activity 10 - Building Houses  
Activity 11 - Test and Improve Design
- Domain 4:** Plants: Plant Parts  
Activity 12 - Seeds  
Activity 13 - Parts of a Plant  
Activity 14 - Needs of Plants
- Domain 11:** Taking Care of the Earth: Composting  
Activity 13 - Earthworm Compost Bin  
Activity 14 - Observing an Earthworm  
Activity 15 - Light or Dark  
Activity 16 - Nature's Recyclers



### Grade 1

- Domain 2:** Human Body  
Activity 1 - Muscle and Bone  
Activity 2 - Stethoscope  
Activity 3 - Spreading Germs
- Domain 6:** Astronomy  
Activity 4 - Shadow Lengths  
Activity 5 - Meteors  
Activity 6 - Moon Phases and Motions  
Activity 7 - Constellations  
Activity 7a - Seeing Bigger—The Telescope
- Domain 7:** History of the Earth  
Activity 8 - Observing Rocks and Minerals  
Activity 9 - Modeling Sedimentary Rocks  
Activity 10 - Modeling Fossils  
Activity 11 - Dinosaur Tracks
- Domain 8:** Animals and Habitats  
Activity 12 - Fish Habitat  
Activity 13 - Observing Fish Behavior  
Activity 14 - Fat, Fur, Feathers  
Activity 15 - Move Like a Fish



### Grade 2

- Domain 2:** Early Asian Civilizations  
Activity 1 - Fertile Soil  
Activity 2 - When the River Flows Fast  
Activity 3 - Flood and Erosion Control
- Domain 6:** Cycles in Nature  
Activity 4 - Plant Life Cycles  
Activity 5 - Seed Dispersal  
Activity 6 - Water Cycle
- Domain 8:** Insects  
Activity 11 - Life Cycles of Insects  
Activity 12 - Mouth Parts of Insects  
Activity 13 - What's in a Dance?
- Domain 10:** Human Body  
Activity 14 - Looking at Cells  
Activity 15 - Cells and Tissues  
Activity 16 - Fatty Snacks