



## Module Descriptions and NGSS Correlations

All modules last 45 minutes in a normal field trip schedule. Each module can be adapted for students from Kindergarten to 5th grade.

### Seed to Harvest

Students learn about the life cycle of a plant through dissecting seeds, and then explore plant life cycles in action while planting, tasting, and tending in the Grow Lunch Garden.

#### Disciplinary Core Ideas:

- Life Science 1.B: Growth and Development of Organisms
  - *How do organisms grow and develop?*
- Life Science 1.A: Structure and Function
  - *How do the structures of organisms enable life's functions?*
- Life Science 2.A: Interdependent Relationships in Ecosystems
  - *How do organisms interact with the living and nonliving environments to obtain matter and energy?*
- Earth Space Science 3.A: Natural Resources
  - *How do humans depend on the earth's resources?*
- Earth Space Science 3.C: Human Impacts on Earth Systems
  - *How do humans change the planet?*

#### Science and Engineering Practices:

- Developing and Using Models

### Plant Parts

Students explore the structure and function of the six plant parts (roots, stems, leaves, flowers, fruit, seeds) and identify foods that come from each part through a scavenger hunt, games, and tasting on the farm.

#### Disciplinary Core Ideas:

- Life Science 1.A: Structure and Function
  - *How do the structures of organisms enable life's functions?*
- Life Science 1.C: Organization for Matter and Energy Flow in Organisms
  - *How do organisms obtain and use the matter and energy they need to live and grow?*
- Life Science 2.A: Interdependent Relationships in Ecosystems

- *How do organisms interact with the living and nonliving environments to obtain matter and energy?*
- Earth Space Science 3.A: Natural Resources
  - *How do humans depend on the earth's resources?*
- Earth Space Science 3.C: Human Impacts on Earth Systems
  - *How do humans change the planet?*

**Science and Engineering Practices:**

- Constructing Explanations and Designing Solutions

## Pollination Station

Students investigate the process of pollination, meet pollinators on the farm, and explore why pollinators are so vital to humans and the planet.

**Disciplinary Core Ideas:**

- Life Science 1.A: Structure and Function
  - *How do the structures of organisms enable life's functions?*
- Life Science 1.B: Growth and Development of Organisms
  - *How do organisms grow and develop?*
- Life Science 2.A: Interdependent Relationships in Ecosystems
  - *How do organisms interact with the living and nonliving environments to obtain matter and energy?*
- Earth Space Science 3.C: Human Impacts on Earth Systems
  - *How do humans change the planet?*

**Science and Engineering Practices:**

- Developing and Using Models

## Soil Investigation

Students investigate the four elements of healthy soil (water, air, minerals, and organic matter), meet the residents of a compost bin, and learn what they can do to reduce their impact on the soil and the planet.

**Disciplinary Core Ideas:**

- Life Science 2.A: Interdependent Relationships in Ecosystems
  - *How do organisms interact with the living and nonliving environments to obtain matter and energy?*
- Life Science 2.B: Cycles of Matter and Energy Transfer in Ecosystems
  - *How do matter and energy move through an ecosystem?*
- Earth Space Science 3.C: Human Impacts on Earth Systems
  - *How do humans change the planet?*

**Science and Engineering Practices:**

- Planning and Carrying Out Investigations

## **Wildlife and the Food Web**

Students discover the many players within a healthy food web, including producers, consumers, and decomposers, and recognize that all living things get their energy from the sun.

**Disciplinary Core Ideas:**

- Life Science 2.A: Interdependent Relationships in Ecosystems
  - *How do organisms interact with the living and nonliving environments to obtain matter and energy?*
- Life Science 2.B: Cycles of Matter and Energy Transfer in Ecosystems
  - *How do matter and energy move through an ecosystem?*
- Life Science 1.C: Organization for Matter and Energy Flow in Organisms
  - *How do organisms obtain and use the matter and energy they need to live and grow?*
- Physical Science 3.D: Energy in Chemical Processes and Everyday Life
  - *How do food and fuel provide energy?*

**Science and Engineering Practices:**

- Developing and Using Models