IGS Curriculum: 7th Grade

Connections to Curriculum Frameworks and MVPS Power Standards: (including, but not limited to)

- Math:
  - Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
  - Use random sampling to draw inferences about a population.
  - Draw and construct geometric figures and understand the relationships between them

- Science
  - Understand that energy moves through an ecosystem. Describe how bacteria, fungus, plant and animal life may contribute to the success of an ecosystem

Connections to IGS Learning Goals:

- Appreciate the farming profession
- Know that everyone can grow food
- Understand the connection between healthy soil, healthy plants and healthy people
- Recognize the difference between the industrial and local food systems
- Feel confident in making healthy eating choices

Essential Questions:

- Where does food come from?
- How does food build community?
- How do humans and plants affect each other?
- How does climate affect our food choices?

Fall (September – November):

Lessons:

- Pollinator observation and tracking in garden
- Explore observation hive
    - Collect data on bees
- Introduction to garden/farm ecosystems
- Soil: testing
    - Soil testing

Field Trips:

- Polly Hill Arboretum: pollinators and plant reproduction

Winter (December – March):

Units/Lessons:

- "Queen of the Sun" : the decline of global bee population
- Pollinators and the food system
    - Classification of plants based on their pollinators
- Soil: texture, percolation

Field Trips:

- Visiting soil experts: Becky Brown

Spring (April – June):

Units/Lessons:

- Design and build a circular pizza garden - using geometry and measurements
- Design and build a pollinator garden
- Insect observation/classification

Field Trips:

- MV Honey Co.