Applicable State of Michigan Grade Level Content Expectations (GLCEs)

Below is a list of content standards, statements, and grade level expectations applicable to the program “Pollination Partnerships.”

Grade Levels 4-7:
*Note: No GLCE Science Standards available for Grade 8*

Michigan Grade Level Content Expectations: Science

- **Discipline 1: Science Processes**
  - **K-7 Standard: Inquiry Process (IP)**
    - **Grade 4 Expectations:**
      - S.IP.04.11 Make purposeful observation of the natural world using the appropriate senses.
      - S.IP.04.12 Generate questions based on observations.
      - S.IP.04.13 Plan and conduct simple and fair investigations.
      - S.IP.04.14 Manipulate simple tools that aid observation and data collection (for example: hand lens, balance, ruler, meter stick, measuring cup, thermometer, spring scale, stop watch/timer, graduated cylinder/beaker).
    - **Grades 5-7 Expectations:**
      - S.IP.05.11, S.IP.06.11 & S.IP.07.11 Generate scientific questions based on observations, investigations, and research.
      - S.IP.05.12, S.IP.06.12 & S.IP.07.12 Design and conduct scientific investigations.
      - S.IP.05.13, S.IP.06.13 & S.IP.07.13 Use tools and equipment (spring scales, stop watches, meter sticks and tapes, models, hand lens) appropriate to scientific investigations.
      - S.IP.05.14, S.IP.06.14 & S.IP.07.14 Use metric measurement devices in an investigation.
  - **K-7 Standard: Inquiry Analysis and Communication (IA)**
    - **Grade 4 Expectation:**
      - S.IA.04.13 Communicate and present findings of observations and investigations.
    - **Grades 5-7 Expectations:**
      - S.IA.05.13, S.IA.06.13 & S.IA.07.13 Communicate and defend findings of observations and investigations using evidence.

- **Discipline 3: Life Science**
  - **K-7 Standard: Ecosystems (EC)**
    - **Grades 4-5, 7 Expectations: General Concepts of Above Standard Covered**
    - **Grade 6 Expectation:**
      - L.EC.06.22 Explain how two populations of organisms can be mutually beneficial and how that can lead to interdependency.
      - L.EC.06.23 Predict how changes in one population might affect other populations based upon their relationships in the food web.
K-7 Standard: Evolution (E)
  - Grades 4, 6-7 Expectations: General Concepts of Above Standard Covered.
  - Grade 5 Expectation:
    - L.EV.05.12 Describe the physical characteristics (traits) of organisms that help them survive in their environment.