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 “Pond Exploration.”

Grade Levels K-7:
Note: No GLCE Science Standards are available for Grade 8

Michigan Grade Level Content Expectations: Science
- Discipline 1: Science Processes
  - K-7 Standard: Inquiry Process (IP)
    - Grades K-4 Expectations:
      - S.IP.00.11, S.IP.01.11, S.IP.02.11, S.IP.03.11 & S.IP.04.11
        Make purposeful observation of the natural world using the appropriate senses.
      - S.IP.00.12, S.IP.01.12, S.IP.02.12, S.IP.03.12 & S.IP.04.12
        Generate questions based on observations.
      - S.IP.00.13, S.IP.01.13, S.IP.02.13, S.IP.03.13 & S.IP.04.13
        Plan and conduct simple and fair investigations.
      - S.IP.00.14, S.IP.01.14, S.IP.02.14, S.IP.03.14 & S.IP.04.14
        Manipulate simple tools that aid observation and data collection
    - 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.05.13, 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.
  - K-7 Standard: Inquiry Analysis and Communication (IA)
    - Grades K-4 Expectations:
      - General Concepts of Above Statement Covered
    - 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: Organization of Living Things (OL)
    - Grade K Expectation:
      - L.OL.00.11
        Identify that living things have basic needs.
    - Grade 1 Expectation:
      - L.OL.01.21
        Describe the life cycle of animals including the following stages: egg, young, adult; egg, larva, pupa, adult.
    - Grade 2 Expectation:
      - General Concepts of Above Statement Covered
    - Grade 3 Expectation:
      - L.OL.03.32
        Identify and compare structures in animals used for controlling body temperature, support, movement, food-getting, and protection (for example: fur, wings, teeth, scales).
• **L.OL.03.42** Classify animals on the basis of observable physical characteristics (backbone, body coverings, limbs).

**Grades 4-5 Expectations:**
- *General Concepts of Above Statement Covered*

**Grade 6 Expectation:**
- **L.OL.06.51** Classify producers, consumers, and decomposers based on their source of food (the source of energy and building materials).

**Grade 7 Expectation:**
- *General Concepts of Above Statement Covered*

- **K-7 Standard: Evolution (EV)**
  - **Grade K-2, 4 Expectations:**
    - *General Concepts of Above Statement Covered*
  - **Grade 3 Expectation:**
    - **L.EV.03.12** Relate characteristics and functions of observable body parts to the ability of animals to live in their environment (sharp teeth, claws, color, body coverings).
  - **Grade 5 Expectation:**
    - **L.EV.05.12** Describe the physical characteristics (traits) of organisms that help them survive in their environment.
  - **Grades 6-7 Expectations:**
    - *General Concepts of Above Statement Covered*

- **K-7 Standard: Ecosystems (EC)**
  - **Grades 2-5, 7 Expectation:**
    - *General Concepts of Above Statement Covered*
  - **Grade 4 Expectation:**
    - **L.EC.04.11** Identify organisms as part of a food chain or food web.
  - **Grade 6 Expectation:**
    - **L.EC.06.21** Describe common patterns of relationships between and among populations (competition, parasitism, symbiosis, predator/prey).
    - **L.EC.06.23** Predict how changes in one population might affect other populations based upon their relationships in the food web.