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 “Birds: Identification, Migration, and Conservation.”

**Grade Levels 4-7:**
Note: No GLCE Standards are 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.04.16 - Construct simple charts and graphs from data and observations.
    - **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.05.15, S.IP.06.15 & S.IP.07.16 - Construct charts and graphs from data and observations.
      - S.IP.05.16, S.IP.06.16 & S.IP.07.16 - Identify patterns in data.
  - K-7 Standard: **Inquiry Analysis and Communication (IA)**
    - **Grade 4** Expectations:
      - S.IA.04.11 - Summarize information from charts and graphs to answer scientific questions.
      - S.IA.04.13 - Communicate and present findings of observations and investigations.
    - **Grades 5-7** Expectations:
      - S.IA.05.11, S.IA.06.11 & S.IA.07.11 - Analyze information from data tables and graphs to answer scientific questions.
      - S.IA.05.12, S.IA.06.12 & S.IA.07.12 - Evaluate data, claims, and personal knowledge through collaborative science discourse.
      - S.IA.05.13, S.IA.06.13 & S.IA.07.13 - Communicate and defend findings of observations and investigations using evidence.
  - **Grade 6** and **Grade 7** Expectation:
    - S.IA.06.14 & S.IA.07.14 - Draw conclusions from sets of data from multiple trials of a scientific investigation to draw conclusions.
  - K-7 Standard: **Reflection and Social Implication (RS)**
    - **Grades 4-7** Expectation:
      - S.RS.04.18, S.RS.05.17, S.RS.06.17 & S.RS.07.17 - Describe the effect humans and other organisms have on the balance of the natural world.
• **Discipline 3: Life Science**
  o **K-7 Standard:** *Organization of Living Things (OL)*
    - **Grade 4** Expectation:
      - L.OL.04.16 Determine that animals require air, water, and a source of energy and building material for growth and repair.
    - **Grades 5-7** Expectation: *General Concepts of Above Statement Covered.*
  o **K-7 Standard:** *Evolution (E)*
    - **Grade 4** Expectation:
      - L.EV.04.21 Identify individual differences (color, leg length, size, wing size, leaf shape) in organisms of the same kind.
    - **Grade 5** Expectation:
      - L.EV.05.11 Explain how behavioral characteristics (adaptation, instinct, learning, habit) of animals help them to survive in their environment.
    - **Grades 6-7** Expectation: *General Concepts of Above Statement Covered.*