

Wildlife

I. Enduring Understanding:

The anatomy and physiology of organisms demonstrates unity and diversity within the major kingdoms. (1,2,5,6,8,9)

Essential Questions:

What characteristics place organisms into specific phylogenies?

What are the structures, functions and behaviors / responses of macroscopic organisms?

Student Outcomes: Students will:

- A. Understand that organisms fit into particular groups.
 - 1. Use field identification keys to identify species representing the major kingdoms and phyla.
 - 2. Distinguish the different characteristics common to each of these major kingdoms and phyla.
 - 3. Identify species commonly found in Minnesota.

II. Enduring Understanding:

Evidence of evolution can be observed as we move from simpler to more complex organisms. (1,2,5,6,8,9)

Essential Questions:

What mechanism promotes change in organisms?

What evidence supports that life on earth has changed?

Student Outcomes: Students will:

- A. Understand that environmental pressures change populations.
 - 1. *Outline Darwin's principles of evolution through natural selection.*
 - 2. *Describe evidences increasing complexity in the organs and systems of organisms.*

III. Enduring Understanding:

The human interaction with Minnesota wildlife communities has profound impact. (1-9)

Essential Questions:

How do humans impact wild populations?

Student Outcomes: Students will:

- A. Understand the impact of humans on the environment.
 - 1. *Describe habitat fragmentation.*
 - 2. Identify wildlife areas in the state of Minnesota.
 - 3. Recognize the economic impact of insects in our lives.
 - 4. *Recognize which local species are threatened or endangered.*

*Information in italics is from the Minnesota Academic Standards in Science.

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