

# Predator/Prey Animal Discovery

## Curriculum Standards and Concept Focus

### 4<sup>th</sup> grade:

- ✓ SC04-S1C1-01: Differentiate inferences from observations.
- ✓ SC04-S1C1-02: Formulate a relevant question through observations that can be tested by an investigation.
- ✓ SC04-S1C1-03: Formulate predictions in the realm of science based on observed cause and effect relationships.
- ✓ SC04-S1C1-01: Communicate verbally or in writing the results of an inquiry.
- ✓ SC04-S1C4-03: Communicate with other groups or individuals to compare the results of a common investigation.
- ✓ SC04-S2C2-02: Describe the interaction of components in a system (e.g., flashlight, radio).
- ✓ SC04-S4C4-02: Give examples of adaptations that allow plants and animals to survive.
  - Camouflage- horned lizards, coyotes
  - Mimicry- Monarch and Viceroy butterflies
  - Physical- cactus spines
  - Mutualism- species of acacia that harbor ants, which repel other harmful insects

### 5<sup>th</sup> grade:

- ✓ SC05-S1C1-01: Formulate a relevant question through observations that can be tested by an investigation.
- ✓ SC05-S1C1-02: Formulate predictions in the realm of science based on observed cause and effect relationships.
- ✓ SC05-S1C4-01: Communicate verbally or in writing the results of an inquiry.
- ✓ SC05-S1C4-03: Communicate with other groups or individuals to compare the results of a common investigation.

### 6<sup>th</sup> grade:

- ✓ SC06-S1C1-02: Formulate questions based on observations that lead to the development of a hypothesis.
- ✓ SC06-S2C2-03: Apply the following scientific processes to other problem solving or decision making situations:
  - Observing
  - Questioning
  - Communicating
  - Comparing
  - Measuring
  - Classifying
  - Predicting
  - Organizing data
  - Inferring
  - Generating hypotheses
  - Identifying variables

### 7<sup>th</sup> grade:

- ✓ SC07-S1C1-01: Formulate questions based on observations that lead to the development of a hypothesis.
- ✓ SC07-S2C2-03: Apply the following scientific processes to other problem solving or decision making situations:
  - Observing
  - Questioning
  - Communicating
  - Comparing
  - Measuring
  - Classifying
  - Predicting
  - Organizing data
  - Inferring
  - Generating hypotheses
  - Identifying variables
- ✓ SC07-S4C3-01: Compare food chains in a specified ecosystem and their corresponding food web.

- ✓ SC07-S4C3-02: Explain how organisms obtain and use resources to develop and thrive in:
  - Niches
  - Predator/prey relationships
- ✓ SC07-S4C3-03: Analyze the interactions of living organisms with their ecosystems:
  - Limiting factors
  - Carrying capacity

**8<sup>th</sup> grade:**

- ✓ SC08-S1C1-01: Formulate questions based on observations that lead to the development of a hypothesis.
- ✓ SC08-S1C3-05: Explain how evidence supports the validity and reliability of a conclusion.
- ✓ SC08-S1C4-01: Communicate the results of an investigation.
- ✓ SC08-S2C2-01: Apply the following scientific processes to other problem solving or decision making situations:
  - Observing
  - Questioning
  - Communicating
  - Comparing
  - Measuring
  - Classifying
  - Predicting
  - Organizing data
  - Inferring
  - Generating hypotheses
- ✓ Identifying variables SC08-S4C4-01: Explain how an organism's behavior allows it to survive in an environment.
- ✓ SC08-S4C4-04: Compare the symbiotic and competitive relationships in organisms within an ecosystem (e.g., lichen, mistletoe/tree. Clownfish/sea anemone, native/non-native species).
- ✓ SC08-S4C4-06: Describe the following factors that allow for the survival of living organisms:
  - Protective design
  - Beak Design
  - Seed dispersal
  - Pollination