



## Lesson Overview: Adaptations

Grades 2-5

### Big Idea/Learning Goal

Organisms have behavioral and physical adaptations that allow them to thrive in different environments

### Essential Questions

- What are **adaptations**?
- How do adaptations allow organisms to **thrive** in different environments?
- How do we **identify** different adaptations and their functions?
- How do you think plants and animals **adapted** to live in the Florida panhandle?

### Objectives

- Students will **differentiate** between physical and behavioral adaptations
- Students will **understand** that adaptations allow organisms to thrive in a particular environment
- Students will **identify** key adaptations of organisms in different habitats, including the habitats of the Florida panhandle.
- Students will **identify** behavioral and physical adaptations for plants, animals, fungi, and other organisms
- Students will **compare, contrast, and discuss** the adaptation traits of different organisms
- Students will **design and share** their own organisms with adaptations.

### Assessments

- Okaloosa species adaptation RAFT presentations
- “Life” Documentary adaptation analysis
- Observing and drawing inferences about bird beak functions
- Questioning and discussions
- Student conversations during “Go Adapt”
- Create a Creature adaptations and presentations

### Activities

1. [Introduction to Adaptations](#)
2. [Physical Adaptations](#)
3. [Behavioral Adaptations](#)
4. [Go Adapt!](#)
5. [Create a Creature](#)

## Vocabulary

**Adaptation:** A physical characteristic (physical adaptation) or behavior (behavioral adaptation) that allows an organism to survive and thrive in its environment

**Camouflage:** A physical adaptation in which an organism blends into its environment

**Competition:** Two or more organisms competing for access to the same resources

**Estivation:** Prolonged torpor/dormancy during hot or dry period such as summer months

**Hibernation:** Prolonged dormancy with reduced metabolism during cold period such as winter

**Migration:** Moving from one place to another for resources, breeding, or climate

**Mimicry:** Taking on physical or behavioral characteristics of another organism in order to survive

**Seed dispersal:** The movement of seeds from plant by wind, water, or animal transport

**Symbiosis:** Two organisms occurring or interacting together that either benefits both organisms (mutualism), benefits one and does not affect other (commensalism), or benefits one organism and harms the other (parasitism)

## Next Generation Science Standards

2-LS4-1. Make observations of plants and animals to compare the diversity of life in different habitats.

3-LS1-1. Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.

3-LS2-1. Construct an argument that some animals form groups that help members survive.

3-LS3-2. Use evidence to support the explanation that traits can be influenced by the environment.

3-LS4-3. Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.

3-LS4-4. Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.

4-LS1-1. Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

4-LS1-2. Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.



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