

High School Biology

Life

Core Idea From Molecules to Organisms: Structures and Processes LS1

Topic Structure and Function LS1.A

- HS-LS1-1.** Target Level: Explain how different organs of the body carry out essential functions of life. [EE.HS-LS1-1](#)
- HS-LS1-1.** Precursor Level: Indicate the function of major organs of the body. [EE.HS-LS1-1](#)
- HS-LS1-1.** Initial Level: Identify major organs of the body. [EE.HS-LS1-1](#)
- HS-LS1-2.** Target Level: Use a model to illustrate the organization and interaction of major organs into systems (e.g., circulatory, respiratory, digestive, sensory) in the body to provide specific functions. [EE.HS-LS1-2](#)
- HS-LS1-2.** Precursor Level: Identify which organs work for a specific function. [EE.HS-LS1-2](#)
- HS-LS1-2.** Initial Level: Recognize that different organs have different functions. [EE.HS-LS1-2](#)
- HS-LS1-3.** Target Level: Collect data from an investigation to show how different organisms react to changes (e.g., heart rate increases with exercise, pupils react to light). [EE.HS-LS1-3](#)
- HS-LS1-3.** Precursor Level: Compare before and after data on changes that occur to an organism. [EE.HS-LS1-3](#)
- HS-LS1-3.** Initial Level: Identify changes in the data display (e.g. objects, pictures, graphs, charts, etc.). [EE.HS-LS1-3](#)

Topic Growth and Development of Organisms LS1.B

- HS-LS1-4.** Target Level: Use a model to illustrate how growth occurs when cells multiply. [EE.HS-LS1-4](#)
- HS-LS1-4.** Precursor Level: Use a model to relate the number of cells to the size of a body. [EE.HS-LS1-4](#)
- HS-LS1-4.** Initial Level: Recognize that organisms are composed of cells. [EE.HS-LS1-4](#)

Core Idea Ecosystems: Interactions, Energy, and Dynamics LS2

Topic Interdependent Relationships in Ecosystems **LS2.A**

- HS-LS2-1.** Target Level: Use a graphical representation to explain changes over time in the population size of an animal species (e.g., currently on the endangered list). **EE.HS-LS2-1**
- HS-LS2-1.** Precursor Level: Use a graphical representation to show changes in population size. **EE.HS-LS2-1**
- HS-LS2-1.** Initial Level: Recognize that there was a change in the population size. **EE.HS-LS2-1**
- HS-LS2-2.** Target Level: Use a graphical representation to explain the dependence of an animal population on other organisms for food and their environment for shelter. **EE.HS-LS2-2**
- HS-LS2-2.** Precursor Level: Recognize the relationship between population size and available resources for food and shelter from a graphical representation. **EE.HS-LS2-2**
- HS-LS2-2.** Initial Level: Identify food and shelter needs for familiar wildlife. **EE.HS-LS2-2**
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Core Idea Heredity: Inheritance and Variation of Traits **LS3**

Topic Variation of Traits **LS3.B**

- HS-LS3-2.** Target Level: Defend why reproduction may or may not result in offspring with different traits. **EE.HS-LS3-2**
- HS-LS3-2.** Precursor Level: Make a claim supported by evidence that parents and offspring may have different traits. **EE.HS-LS3-2**
- HS-LS3-2.** Initial Level: Compare traits of parents and offspring. **EE.HS-LS3-2**
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Core Idea Biological Evolution: Unity and Diversity **LS4**

Topic Adaptation **LS4.C**

- HS-LS4-2.** Target Level: Explain how the traits of particular species allow them to survive in their specific environments. **EE.HS-LS4-2**
- HS-LS4-2.** Precursor Level: Identify factors in an environment that require special traits to survive. **EE.HS-LS4-2**
- HS-LS4-2.** Initial Level: Match particular species to their various environments. **EE.HS-LS4-2**
- HS-LS4-3.** Target Level: Interpret data sets to identify an advantageous heritable trait. **EE.HS-LS4-3**
- HS-LS4-3.** Precursor Level: Using data sets, identify organisms that would survive better in certain environment. **EE.HS-LS4-3**
- HS-LS4-3.** Initial Level: Recognize that some organisms survive better in certain environments. **EE.HS-LS4-3**
- HS-LS4-6.** Target Level: Evaluate a strategy to protect a species. **EE.HS-LS4-6**
- HS-LS4-6.** Precursor Level: Using a mathematical model, determine which human actions help or harm a species. **EE.HS-LS4-6**
- HS-LS4-6.** Initial Level: Identify a human activity that has an effect on a species. **EE.HS-LS4-6**