Wisconsin Science Dynamic Learning Maps

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

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

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