

# Environmental Science

## Environmental Science

### Resources and Resource Management

- HS-EVS1-1.** Analyze and interpret data to identify the factors that affect sustainable development and natural resource management in Louisiana. [HS-EVS1-1](#)
  - HS-EVS1-2.** Obtain, evaluate and communicate information on the effectiveness of management or conservation practices for one of Louisiana's natural resources with respect to common considerations such as social, economic, technological, and influencing political factors over the past 50 years. [HS-EVS1-2](#)
  - HS-EVS1-3.** Analyze and interpret data about the consequences of environmental decisions to determine the risk-benefit values of actions and practices implemented for selected issues. [HS-EVS1-3](#)
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### Environmental Awareness and Protection

- HS-EVS2-1.** Design and evaluate a solution to limit the introduction of non-point source pollution into state waterways. [HS-EVS2-1](#)
  - HS-EVS2-2.** Use a model to predict the effects that pollution as a limiting factor has on an organism's population density. [HS-EVS2-2](#)
  - HS-EVS2-3.** Use multiple lines of evidence to construct an argument addressing the negative impacts that introduced organisms have on Louisiana's native species. [HS-EVS2-3](#)
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### Personal Responsibilities

- HS-EVS3-1.** Construct and evaluate arguments about the positive and negative consequences of using disposable resources versus reusable resources. [HS-EVS3-1](#)

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## Earth's Systems

- HS-ESS2-2.** Analyze geoscience data to make the claim that one change to Earth's surface can create feedbacks that cause changes to other Earth's systems. [HS-ESS2-2](#)
- HS-ESS2-4.** Analyze and interpret data to explore how variations in the flow of energy into and out of Earth's systems result in changes in atmosphere and climate. [HS-ESS2-4](#)
- HS-ESS2-5.** Plan and conduct an investigation on the properties of water and its effects on Earth materials and surface processes. [HS-ESS2-5](#)
- HS-ESS2-6.** Develop a quantitative model to describe the cycling of carbon among the hydrosphere, atmosphere, geosphere, and biosphere. [HS-ESS2-6](#)
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## Human Sustainability

- HS-ESS3-1.** Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity. [HS-ESS3-1](#)
- HS-ESS3-2.** Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios. [HS-ESS3-2](#)
- HS-ESS3-3.** Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity. [HS-ESS3-3](#)
- HS-ESS3-4.** Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.\* [HS-ESS3-4](#)
- HS-ESS3-6.** Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity [HS-ESS3-6](#)
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## Life Science

### Ecosystems: Interactions, Energy, and Dynamics

- HS-LS2-1.** Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity, biodiversity and populations of ecosystems at different scales. [HS-LS2-1](#)
- HS-LS2-4.** Use mathematical representations to support claims for the cycling of matter and flow of energy among organisms in an ecosystem. [HS-LS2-4](#)
- HS-LS2-6.** Evaluate the claims, evidence and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem. [HS-LS2-6](#)
- HS-LS2-7.** Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity. [HS-LS2-7](#)