



Unit 6 Human Impact and Sustainability

High School Environmental Science

Unit Length and Description:

7 Instructional Weeks

Students will 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 last 50 years. They will also evaluate arguments about the positive and negative consequences of using disposable resources vs. reusable resources and evaluate design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios. Students will also illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.

Science Standards:

- 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-EVS3-1** Construct and evaluate arguments about the positive and negative consequences of using disposable resources versus reusable resources.
- HS-ESS3-2** Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios.
- HS-ESS3-3** Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.

Enduring Understandings- Unit Anchor Phenomenon:

The Deepwater Horizon oil spill disrupted the cellular function of killifish.

Essential Questions- Reflective Summaries:

- Communicate information on the effectiveness of management or conservation practices for oil and gas production in Louisiana with respect to common considerations such as social, economic, technological, and influencing political factors over the past 50 years.
- Construct arguments about the positive and negative consequences of using disposable resources versus reusable resources in Louisiana.

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| | <ul style="list-style-type: none">- Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources in Louisiana based on cost-benefit ratios.- Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity in Louisiana. |
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