

Instructional Scenario

Managing Hazardous Waste



Course/Duty Area: Introduction to Natural Resources/Understanding Natural Resource Management

Scenario:

Jesse just got hired by the county soil and water district. His job will be to develop comprehensive programs and plans to conserve soil resources, control and prevent soil erosion, prevent floods, and conserve, develop, utilize, and dispose of water. On some jobs, Jesse has decided to cut some corners to save time and effort. He doesn't always follow the law and doesn't follow proper procedures for disposing of his chemicals. He thinks these cuts are not a big deal and doesn't realize the importance of managing the natural resources around him.

Big Question:

What is the importance of managing our natural resources, and what are the consequences if we do not?

Focused Questions:

- What is the difference between renewable and nonrenewable resources?
- How do we define *natural resources*, and what are the most common mineral, energy, and groundwater resources?
- How does the presence or absence of natural resource management affect a region's economic development and position?

Student Project or Outcome:

Research what makes up hazardous waste and how it affects the environment.

Project-Based Assessment:

Explain to students that they will learn which items make up outdoor hazardous waste. They will be able to identify these items outside of the school and explain how to dispose of them properly. In addition, they will learn how to properly dispose of other hazardous items. They will make their own alternative pesticides using safe ingredients and develop a plan on how to properly dispose of them. Lastly, they will make an informational poster to share with their family regarding what they have learned.

Teacher Resources:

- [Environmental Lesson Plan](#), Environmental Defenders Program
- [§ 10.1-1426. Permits required; waiver of requirements; reports; conditional permits.](#), Article 4. Hazardous Waste Management., Code of Virginia

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