SPLASh Educational Programming

Introduction

SPLASh educators are committed to empowering our next generation of environmental stewards. Through our hands-on, experiential approach, we will bring TEKS-supported curricula to the classroom in-person or virtually. Plan a cleanup with us to dive even further into data collection while making a positive impact on local ecosystems!

Below is a list of the educational programming provided by SPLASh. An educator will join your classroom, in-person or virtually, to walk students through an experiential lesson related to marine debris and environmental stewardship. Programming includes interactive lessons, field and classroom investigations, and extension activities for continued student engagement. We are committed to bringing engaging curricula to your school and will tailor the lessons in order to meet each student’s needs.

Note: Educators and students will be required to complete pre- & post-programming surveys. We thank you in advance for your feedback!

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<td>Learn about the origin of plastics and trash pollution in Texas and how to make a positive impact.</td>
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<td>Learning from Data</td>
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Lesson Synopsis

Introduction to Marine Debris

Time 120 minutes
Virtual 70 minutes

Students will be introduced to the marine debris issue off the Texas coast, focusing on the plastic pollution problem. They will investigate the characteristics of trash to better understand how trash enters an environment, what its impacts are on habitats, wildlife, & humans and learn ways in which they can be part of solutions.

Essential Questions
What is marine debris and how can I help to mitigate the problem?
How do man made products affect the Texas marine environment?

Objectives
Students will...
• List the 5 characteristics that describe marine debris and provide examples.
• Name 2 effects marine debris has on coastal ecosystems.
• Collect and record data to describe quantitative and qualitative characteristics of trash items.
• Use evidence to determine the likelihood of different materials becoming marine debris.
• Discuss ways in which they can positively impact the marine ecosystems and combat plastic pollution.
Community Science & Trash Transect Survey

**Time** 80 minutes  
**Virtual** 60 minutes

Students will participate in community science and contribute to SPLASH's ongoing database of marine debris on Texas coasts by learning about the issue, exploring ways they can contribute, and conducting sample transect surveys. This lesson fosters student learning of the scientific process through community science and works in conjunction with a field experience to a local or beach clean up. *(While the field experience is not required, it is highly recommended as a way for students to engage with an ecosystem and gain firsthand experiences of the marine debris problem off the Texas coast).*

**Essential Question**
How can I contribute to mitigating the marine debris problem on Texas coastlines?

**Objectives**
Students will…

- Explain the importance of community science.
- Conduct a trash transect survey using proper safety and investigation protocols.
- **In field Transect Survey:** Participate in community science and contribute to a deeper understanding of the marine debris issue off Texas coasts.
Sustainability & Trash Audit Survey

Time 90 minutes  
Virtual 40-50 minutes

Students will be introduced to the issue of marine debris and learn about sustainable ways in which they can effectively mitigate waste at home, in their school, and even their community. Students will conduct a trash audit following the scientific process and then use this information to develop a PSA providing effective solutions for their community.

Essential Question  
How can I contribute to mitigating marine debris off Texas coastlines?

Objectives  
Students will…

● Better understand what trash items contribute to marine debris. See what items can and can’t be recycled.
● Conduct a trash audit using proper safety and investigation protocols.
● Identify and develop sustainable solutions for reducing waste in their locale.
● Implement local solutions for their classroom or school to better manage their waste disposal.
Beach Cleanup Experiential Lesson

**Time** 3 hours

Students will participate in community science and contribute to SPLASH’s ongoing database of marine debris on Texas coasts. Students will learn about marine debris and its impacts, conduct a trash transect survey, and gain firsthand knowledge of ways to positively impact the world around them.

**Essential Questions**
What is marine debris and how can I help?

**Objectives**
Students will...
- Understand marine debris and its effects on the natural environment.
- Conduct a trash transect survey using proper safety and investigation protocols.
- Participate in community science and contribute to a deeper understanding of the marine debris issue off Texas coasts.