

Elementary Lesson Plan

Science Grade 3

OBJECTIVES

1. Students will understand the importance of lighthouses in navigation and safety.
2. Identify key features of the Lydia Ann Lighthouse
3. Learn about basic principles of light and optics

TEKS ADDRESSED

Science (3.6) - Earth and Space: The student knows that Earth consists of natural resources and its surface is constantly changing.

ACTIVITIES

1. **Introduction to Lighthouses:** Begin with a discussion about lighthouses and their purpose in guiding ships safely. Introduce the Lydia Ann Lighthouse as a local example.
2. **Virtual Tour:** Utilize virtual resources to provide a tour of the Lydia Ann Lighthouse, highlighting its structure, location, and historical significance.
3. **Light and Optics Experiment:** Conduct a simple experiment to demonstrate how light travels. Students can use flashlights and mirrors to simulate how lighthouses use optics to project light over long distances.
4. **Art Project:** Have students create their own miniature lighthouses using craft materials. Encourage them to include key features they learned about, such as the lantern room and Fresnel lens.
5. **Writing Activity:** Prompt students to write a short paragraph about the importance of lighthouses and how they help sailors navigate safely.

ASSESSMENT

Students will be assessed based on their participation in discussions, completion of the art project, and the quality of their writing activity.