

# LIGHTHOUSE DISCOVERY - SCIENCE (GRADE 3)

## OBJECTIVE

Objective: Students will understand the importance of lighthouses in navigation and safety, identify key features of the Lydia Ann Lighthouse, and learn about basic principles of light and optics.

## TEKS

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

## ACTIVITIES

**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.

**Virtual Tour:** Utilize virtual resources like Google Earth to provide a geographical overview of the Lydia Ann Lighthouse, highlighting its structure, location, and historical significance.

**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.

**Engineer:** Have students design and sketch their own lighthouse. Encourage them to include key features they learned about, such as the lantern room and Fresnel lens.

**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.