



GREAT LAKES LEARNING

LESSONS & ACTIVITIES BASED ON THE MONTHLY GREAT LAKES NOW PROGRAM

EPISODE 2201 | SPECTACLE REEF LIGHTHOUSE

LIGHTING THE WAY



Image Credit: Great Lakes Now

OVERVIEW

This lesson will introduce students to the phenomena of **light intensity** and the inverse-square law that governs it by helping them understand how a lighthouse functions to light the way for ships and boats,

LESSON OBJECTIVES

- **Know** some of the history of Great Lakes lighthouses
- **Understand** the difference between light intensity and luminosity, as well as the inverse-square law of light intensity
- **Be able to** explain how lighthouses provide a lightsource for boats and ships on the waters nearby, and how that lightsource changes with distance

WHAT YOU'LL NEED

- Computer or mobile device with Internet access to view video and online resources
- Notebooks and pencils
- Chart paper
- Sticky notes
- Markers
- Candles
- Magnifying glass
- File folders
- Flashlights
- Meter sticks
- Graph paper
- Paper clips
- Copies of the Student Handouts