

LIGHT WAVES

NEXT GENERATION SCIENCE STANDARDS

Mar. 8, 2019

Day 1/117



At the end of today's lesson you will;

- *How does light interact with materials?*

Classwork-

- **Light Waves 3.1**
- *Students have established that energy from light can change a material when it is absorbed.*
- *In this lesson, students consider what happens to energy when light is transmitted or reflected, answering the Investigation Question: What happens to energy when light is transmitted through or reflected off a material? Students begin by predicting whether reflected light can cause a change to aluminum foil in the Warm-Up.*
- *Next, students use the Simulation to test the behaviors and effects of energy during transmission and reflection.*
- *They observe that when light is transmitted or reflected by a material, the energy travels with it, and the material does not change.*
- *Students apply this idea as they return to the “What Eyes Can See” article.*
- *They explain why dark-colored materials get warmer than light-colored or clear materials do when light is shined on them.*

Homework-

- *For homework, students revisit the Warm-Up and revise their explanation. The purpose of this lesson is for students to learn and apply the idea that when light is transmitted or reflected, the energy travels with it.*
- *Complete all of the Light Waves 3.1 Sections from today's lesson.*
- *Study the new Vocabulary terms found in the Light Waves unit on QUIZLET.*