

# LIGHT WAVES

## NEXT GENERATION SCIENCE STANDARDS

**Mar. 11, 2019**

**Day 2/118**



**At the end of today's lesson you will;**

- How does light interact with materials?

### **Classwork-**

- **Light Waves 3.2/3**
- Students read “What Eyes Can See,” an article about how types of light interact with materials and how this affects what humans see, as they continue to answer the Investigation Question: What can happen to light as it travels? The teacher prepares students to read the article by reviewing how to construct brief summary statements to keep track of important ideas while reading, an Active Reading strategy highlighted in this lesson. Students read and annotate the article independently, and then reflect on their annotations in partner and whole-class discussions.
- NEXT, 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 return to their Anticipation Guide from Lesson 1.2, and also read about how light and sound waves travel through different materials.
- Next, 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 3.2 and 3.3 Sections from today's lesson.
- Study the new Vocabulary terms found in the Light Waves unit on QUIZLET. Vocabulary Quiz TOMORROW