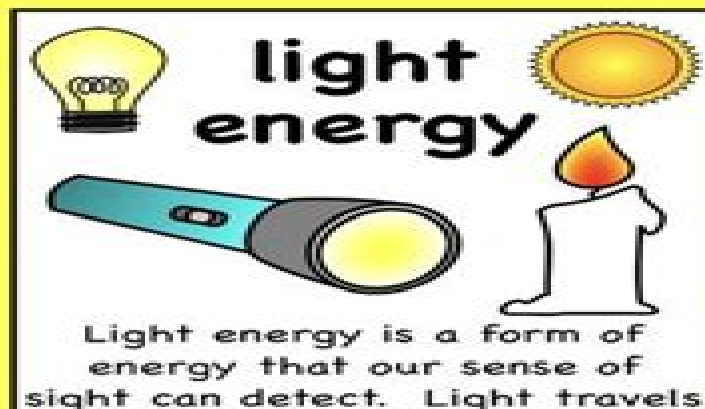


Fourth Grade Physical Science

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Lesson 4: Light Energy (one day)

LEPS1-2: Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.

1. Ask students to brainstorm again about what they know about light energy. Hopefully they will know that light is a form of energy that lets us see, it travels in a straight line, and that light energy starts with the sun. Pass out the worksheet: Investigating Light. You can have students look at the vocabulary words and try and complete the paragraph with a partner or in a small group by lightly recording their answers before the video to get an idea of their prior knowledge. Show the YouTube Video: Science Video for Kids: How Does Light Travel? (time: 7:05) Then have students go back and complete the worksheet. Discuss.
2. Explore how light energy can be transferred to make things move. You will need a strong light like a clamp on light and small solar objects. You can get a clamp on light for around \$8 at Lowes etc. Amazon sells little solar cars for \$9.99, and solar grasshoppers for \$1.99 (as of May 2018). Place one of the solar objects under the clamp on light. Turn it on and watch your object move.



Name: _____ Date: _____

Investigating Light

Use the words in the box to complete the paragraph.

reflects	glass	absorb	transparent	refraction
straight	mirrors	opaque	translucent	water

Light travels in a straight line. When light hits something and bounces off it we say it reflects. Shiny objects like mirrors reflect a lot of light. Some objects don't reflect light. These things absorb light. Light can pass through some things like glass and water. This makes the light slow down and bend. This is called refraction. When light easily passes through something we say that these things are transparent. When some light passes through objects we say these objects are translucent. Objects that block are light are opaque.

1. Name of least one object that bends light to help us see better: glasses, cameras, microscopes, telescopes
2. What is one thing a laser can do? cut things, scan things
3. How do fiber optic cables help us? send email messages and phone messages

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Thomas Griffiths



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