

HOW DO WE USE **LIGHT?**



by Emily Rajj



TABLE OF CONTENTS

A LIGHT INVESTIGATION	4
WHAT IS LIGHT?.....	12
HOW DO WE SEE LIGHT?.....	16
HOW DO WE SEE COLORS?	24
HOW DO WE USE LIGHT?	28
GLOSSARY.....	30
READ MORE.....	31
INTERNET SITES	31
INDEX	32
ABOUT THE AUTHOR	32

Words in **bold** are in the glossary.

A LIGHT INVESTIGATION

Imagine you are camping. The sun has gone down. Only the moon and stars light up the sky. The campfire crackles. Marshmallows roast over the fire. Then everyone grabs flashlights to tell ghost stories.





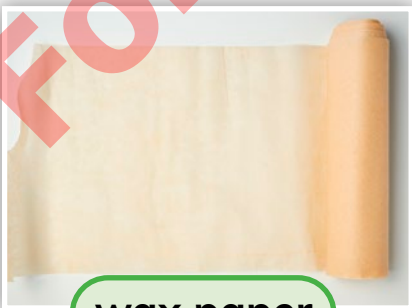
In the morning, the sun comes up.
It sparkles on the lake. Your shadow
follows you as you hike. Time to rest
under a shady tree.

Sun, moon, stars, fire, and shadows.
What do all of these things have in
common besides camping? It's light!

Let's do a light investigation. Choose three objects. One should be clear like a glass. Another should be harder to see through like a piece of wax paper. The last object should be impossible to see through, such as a plastic toy.



drinking glass



wax paper



toy dinosaur



Go in a dark room. Hold a flashlight so it shines a few feet away on an empty wall.



Put each object in front of the flashlight. Does light shine through? Are there shadows on the wall?

What happens to the shadows as you move each object closer to the flashlight? What happens when you move things farther away?

You just did a light experiment! Different types of objects let different amounts of light through. Shadows change as objects move closer to or farther away from a light source.