

Colors of Sunlight Mini Experiments

Discover the science of sunlight and colors!

Instructions: Discover the science of colors and sunlight with eight mini experiments. Explore at your own pace!

Optional: Print and cut out cards. Fold and glue together to make a double-sided card.

Where materials are needed, they are noted on the card.

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| <p>Mini Experiment 1</p> <p>Light or Dark?</p> <p>Go in a dark room, then go in a room with a window (during the daytime). Do you see more colors in the dark or in the light?</p> | <p>Explore</p> <p>The light of the Sun shines on the Earth during the daytime. We see colors when it is light.</p> <p>Image: Sam T on Flickr.</p> |
| <p>Mini Experiment 2</p> <p>Speed of Light!</p> <p>Go for a walk for 8 minutes. Set a timer and see how far you get in the time it takes</p> <p>Materials: Timer or watch.</p> | <p>Explore</p> <p>Sunlight travels faster than anything we know! It takes just over 8 minutes for sunlight to travel from the Sun to the Earth!</p> |

Mini Experiment 3

Make Waves!

Can you blow waves over a

Mini Experiment 6

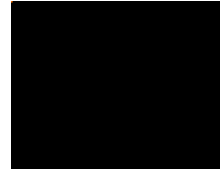
Bouncy Colors!

Compare the bounce of a playdough ball and a bouncy ball (use two colors if available). Which ball bounces more? Imagine light bouncing off in a similar way.

Materials: Playdough, bouncy ball.

Explore

Objects on Earth absorb and bounce back different wavelengths of sunlight. The colors we see are the waves that are reflected (bounced back). A leaf looks green to us because it absorbs red light and reflects green light.



Mini Experiment 7

Find Colors!

Look around you. Name several colors that you can see right now. What are your favorite colors?

Explore

Special cones inside our eyes allow us to see many different colors. People everywhere around the world see colors. Colors might have different names and meanings.