

Expanding...

With a partner, look around your yard. Draw a shadow that you see below. See if your partner can guess what the shadow is.

Student Name: _____

Teacher's Name: _____

Due Date: _____

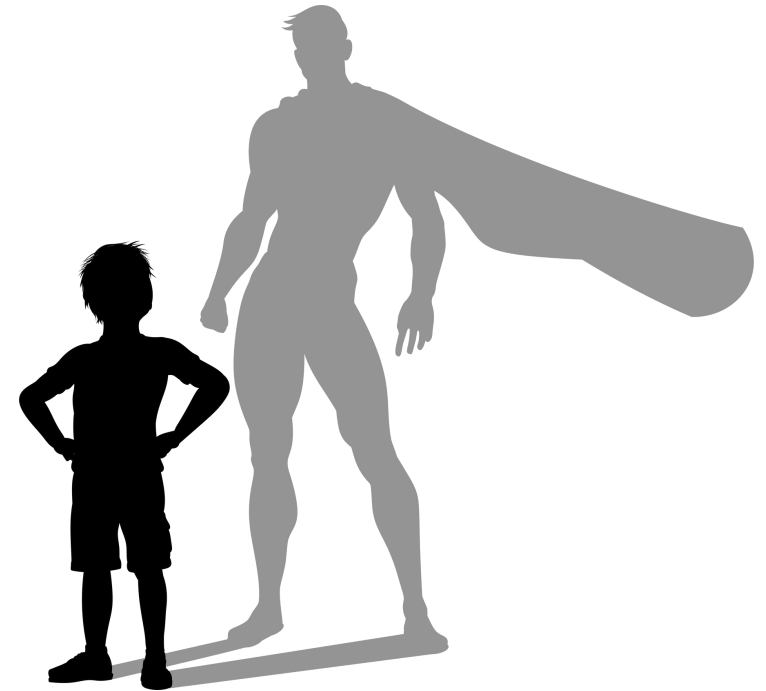
Partner's Name: _____



The Science Alliance of Tennessee, a coalition of 6 Science and Children's Museums, aims to foster children's curiosity, wonder and problem-solving skills using STEM curricula and community connections that set students on a positive trajectory of learning where they live and play. This project, the Tennessee Rural Impact Project (TRIP), was made possible in part by the Institute of Museum and Library Services.

Let's Explore

Shadows



Exploring...

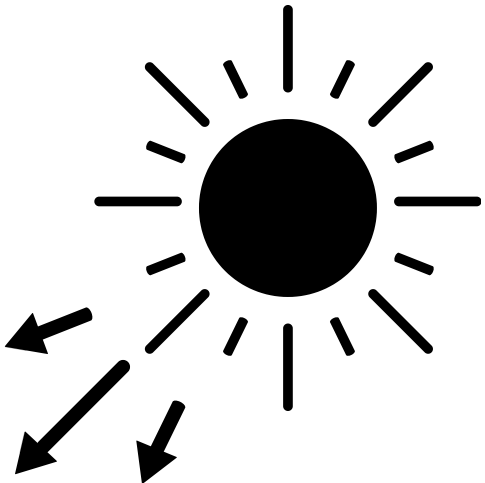
A shadow is the dark shape made when something blocks light.

You need three things to make a solar shadow.

- 1) The Sun.
- 2) A person or object to block the sun's light.
- 3) A surface for the shadow.

Light travels in a straight line away from the sun. A shadow is made when a person or object blocks the sunlight.

A shadow forms in the opposite direction of the light. This shadow can change its shape, size, or place. This shadow will change with the position of the sun.



What to do

Solar Shadows

Go outside on a sunny day with a partner.

Find a large flat area like a sidewalk or driveway.

Mark your shadow. A handful of rocks, sticks or some sidewalk chalk will do.

Stand in the center of the sidewalk or driveway. Have someone trace or mark where your shadow is.

Go outside an hour later. Stand in the same spot. Again, have someone mark where your shadow is. You can repeat this throughout the day if you want to!

What do you notice about your shadow?

Did your shadow change shape or size?

Did your shadow change position?