

Which objects make shadows?

How can you change the shadow's shape?

Try this experiment and find out!

WHAT YOU NEED:

- Flashlight
- Dark room
- Opaque, translucent, and transparent objects, such as a wooden toy, a colored plastic grocery bag, and a clear plastic freezer bag

WHAT YOU DO:

1. In a dark room, prop up a flashlight so it shines on a clear wall. The flashlight should be 3–6 feet (1–2 m) away from the wall.
2. Take the opaque object and place it between the flashlight and the wall so it casts a shadow.
3. What happens to the shadow if you move the object closer to the flashlight? How about away from the light?
4. Experiment with the other objects. What kinds of shadows do they cast? Is some light getting through?

TRY THIS! LIGHT AND SHADOWS TRY THIS!

