

What is a Shadow?

A shadow is created when an **opaque** material or object is placed in front of a **light source** and prevents the light from passing through. It creates a dark area or shape on a surface as a result.



Light can only travel in a straight line. A shadow is formed when something blocks light.

Here is a shadow puppet show of Little Red Riding Hood. The shadows are formed when light is shone on the puppets. The puppets block the light and a shadow is formed.



Shadows can be created from natural lighting and artificial lighting.

Changing Shadows

Shadows can change depending on the position of the lightsource.



The closer to the light source an object is, the bigger the shadow will be. This is because the object blocks more of the light.

The further away from the light source an object is, the smaller the shadow will be. This is because the object blocks less of the light.



When the light source moves, the shadow will change. When the light source is directly above the object, the shadow will be directly underneath. When the light source is to one side of the object, the shadow will appear on the opposite side. The shadow will also be longer.

