

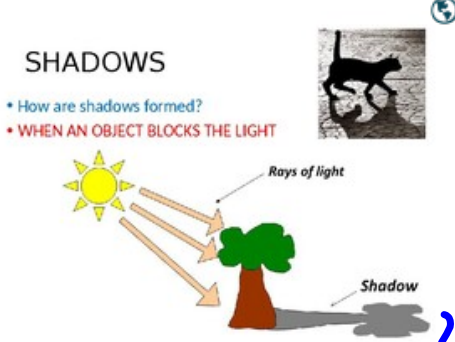
February 2nd is Groundhog Day! As the tradition goes, if a groundhog emerges from its burrow and sees its shadow, spring is still 6 weeks off; if the groundhog doesn't see his shadow, it means warmer weather is on its way.

Have you ever wondered what causes shadows? Or how a shadow might change shape depending on the time of day or time of year? Look around you now; If you are in a lighted space, chances are you will see a shadow because shadows are all around us.



Shadows -the absence of light. Light is a form of energy that travels in a straight line until it hits an object. If the object blocks the light from passing through it, that creates an area of darkness—a shadow—on the other side.

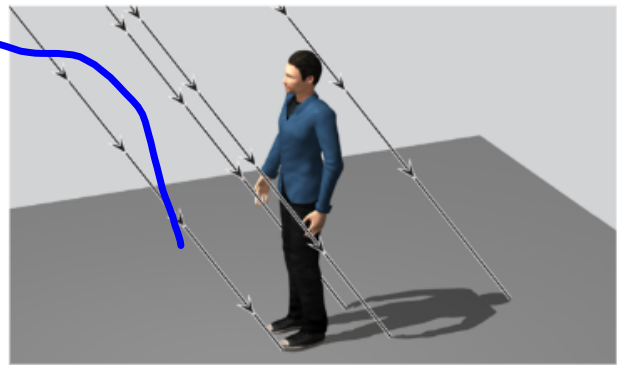
[LEAKED! Hilarious Shadow Puppets - AGT 2023 Early Release \(youtube.com\)](#)



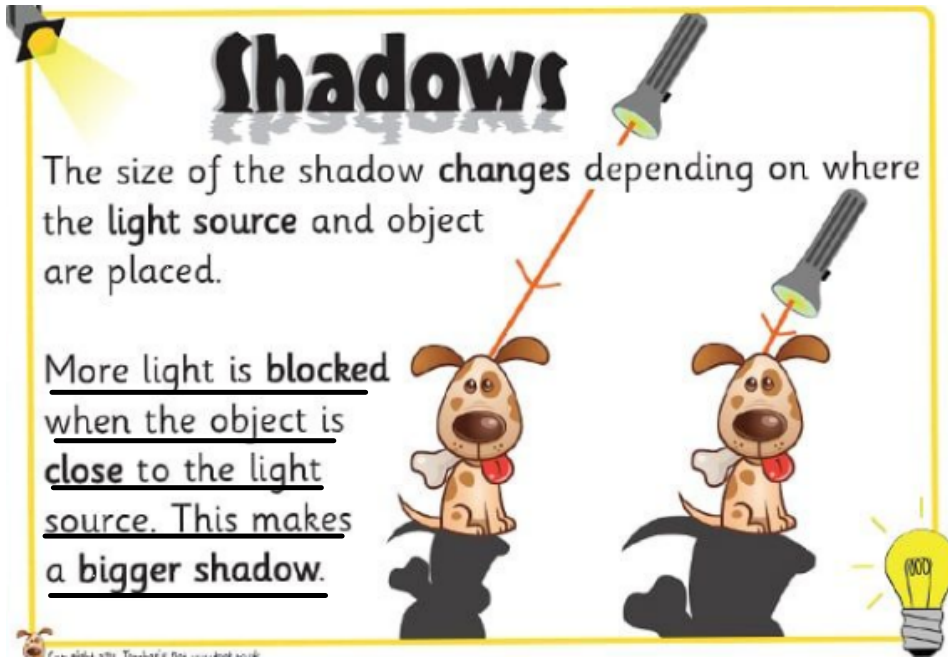
[Shadow Ace Wows the judges with amazing hand shadows! | AGT: Fantasy League 2024 \(youtube.com\)](#)

Light rays are represented as straight paths.

When they are blocked by solid objects, shadows are formed.



Mar 13

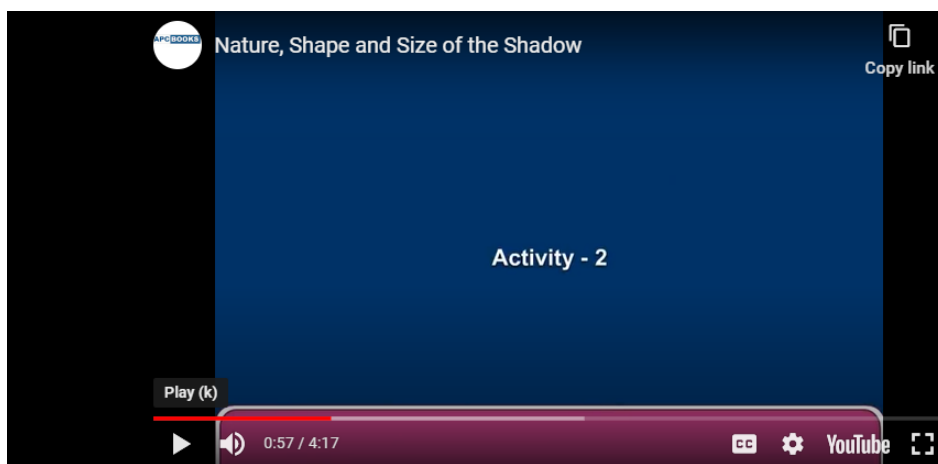


Shadows

The size of the shadow **changes** depending on where the **light source** and object are placed.

More light is blocked when the object is close to the light source. This makes a bigger shadow.

Shape and size of a shadow depends on the angle at which light falls on the object, distance between the source of light and the object and also on the distance between the object and the screen. Shape and size of a shadow does not depend on the colour of the object.



Nature, Shape and Size of the Shadow
YouTube · 2.2K views · Jan. 16, 2017 · by APC BOOKS