

Seven Properties of Light *March. 12*

1. Light travels very fast.
2. Light has a dual nature.
3. Light travels in straight lines.
4. Light can vary in intensity.
5. Light interacts with matter.
6. Light is comprised of many colors.
7. Light carries energy and information.



Absorption

- Absorption of light occurs when an object does not reflect or transmit the light.
- Black objects absorb all light and white objects absorb no light.
- Whatever color or wavelength of light is absorbed, the opposite color is reflected.
 - Ex: An object that appears red is absorbing blue and green wavelengths.

[Light Absorption and Reflection - YouTube](#)



Light Absorption and Reflection



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Shadows



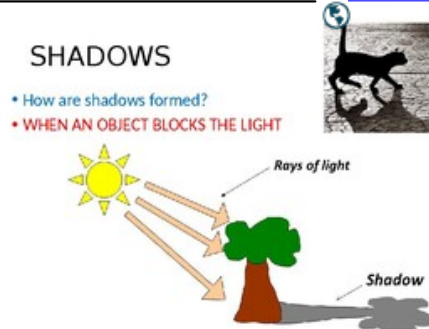
February 2nd is Groundhog Day! As the tradition goes, if a groundhog emerges from its burrow and sees its shadow, spring is still 6 weeks off; if the groundhog doesn't see his shadow, it means warmer weather is on its way.

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.

