

## Transparent

“something clear or see-through that allows all light to pass through.” If an object is transparent, you can clearly see things on the other side of it by looking through that object.

Examples) Clear glass window, water, cellophane



## Translucent

“allowing light, but not detailed shapes, to pass through; semitransparent.”

- Partially see through

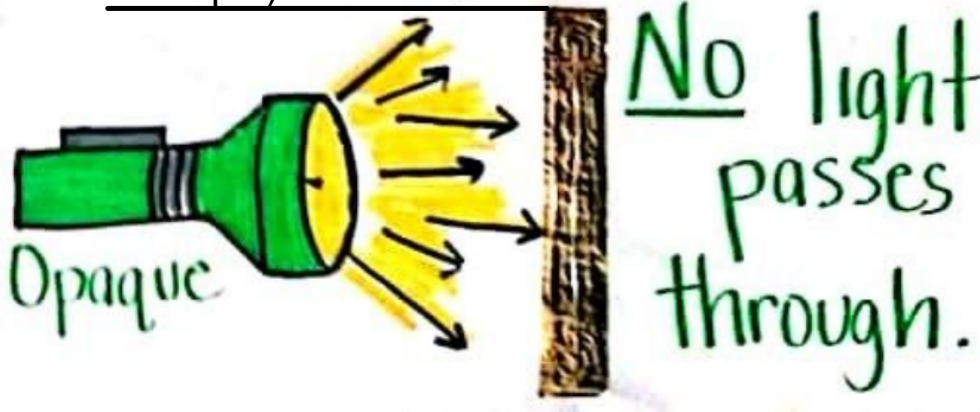
Examples: Sunglasses,



## Opaque

“does NOT allow light to pass through. Cannot see through”

Example) The brick wall



# Transparent, Translucent, Opaque. Okay??



All light passes through.



Some light passes through.



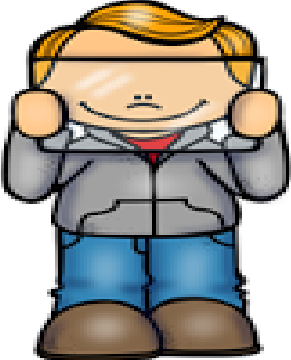


No light passes through.

[Transparent Translucent Opaque \( WITH EXAMPLES \) \(youtube.com\)](https://www.youtube.com/watch?v=...)



[ADLC - Elementary Science: Translucent, Transparent, Opaque \(youtube.com\)](https://www.youtube.com/watch?v=ADLC-ElementaryScience:Translucent,Transparent,Opaque)



TRANSPARENT	TRANSLUCENT	OPAQUE
 <p data-bbox="181 1200 550 1308">Transparent objects allow all of the light to pass through them. This means that we can clearly see through them.</p>	 <p data-bbox="564 1200 927 1308">Translucent objects only allow some light to pass through them. This means that we can partially see through them.</p>	 <p data-bbox="963 1200 1295 1308">Opaque objects do not allow any light to pass through them. This means that we cannot see through them at all.</p>

## What Is the Electromagnetic Spectrum?

Have you ever gone outside after a rain shower and noticed a rainbow in the sky? Maybe you have had an x-ray to see if you had broken a bone. More than likely you have at least watched the television or used a cell phone. What do these all have in common? Well they all involve the electromagnetic spectrum.

The electromagnetic spectrum is a diagram that charts electromagnetic waves.

Electromagnetic waves are waves that can travel through the emptiness of space, at the speed of light.

Seven types of electromagnetic waves are:

1) radio waves 2) microwaves 3) infrared waves, 4) visible light waves, 5) ultraviolet waves, 6) x-rays 7) gamma rays.

[The Electromagnetic Spectrum \(youtube.com\)](#)

