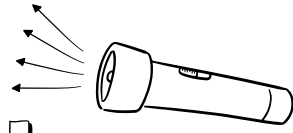


Name: \_\_\_\_\_



# Does Light Go through?

**Transparent** objects let *all* light to pass through them.

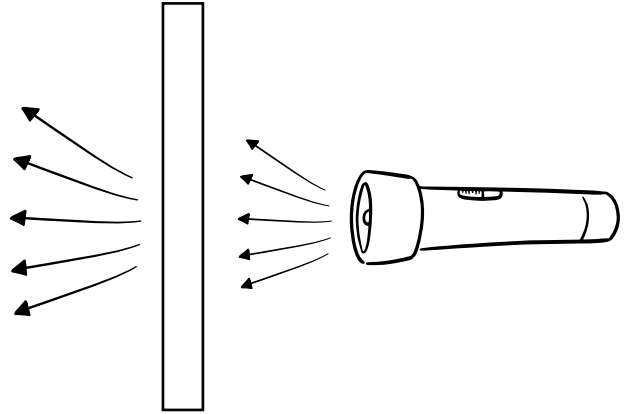
**Translucent** objects let *some* light to pass through them.

**Opaque** objects let *no* light to pass through them.

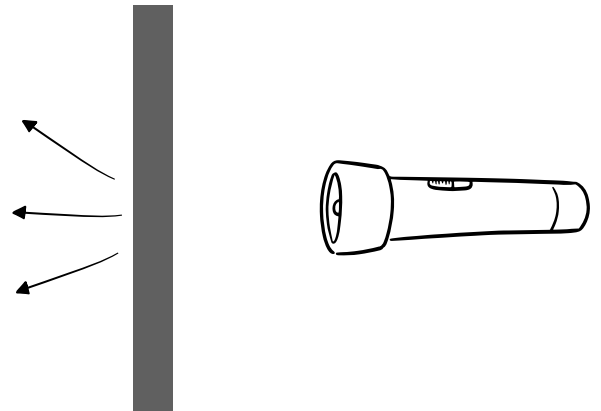
After experimenting with each of these objects, check the correct box to decide if they are transparent, translucent or opaque.

	TRANSPARENT	TRANSLUCENT	OPAQUE
paper			
aluminum foil			
jar			
wood			
glass window			
mirror			
magnifying glass			
bottle			
colored celophane			
wax paper			

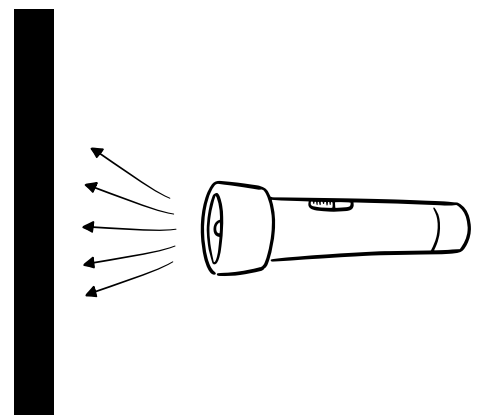
**ALL** of light passes through the material.



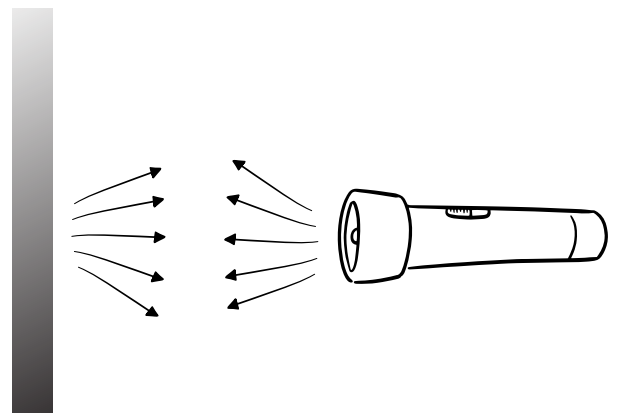
**SOME** of the light passes through the material.



**NONE** of the light passes through the material.



Light **BOUNCES** of the material.



# Reflection

- is when light bounces off an object. If the surface is smooth and shiny, like glass, water or polished metal, the light will reflect at the same angle as it hit the surface.



# Refraction

- is the bending of light (it also happens with sound, water and other waves) as it passes from one transparent substance into another.



# Shadow

- a dark area where light from a light source is blocked by an opaque object. It occupies all of the three-dimensional volume behind an object with light in front of it.



# Spectrum

- is a condition that is not limited to a specific set of values but can vary, without steps, across a continuum. The word was first used scientifically in optics to describe the rainbow of colors in visible light after passing through a prism.

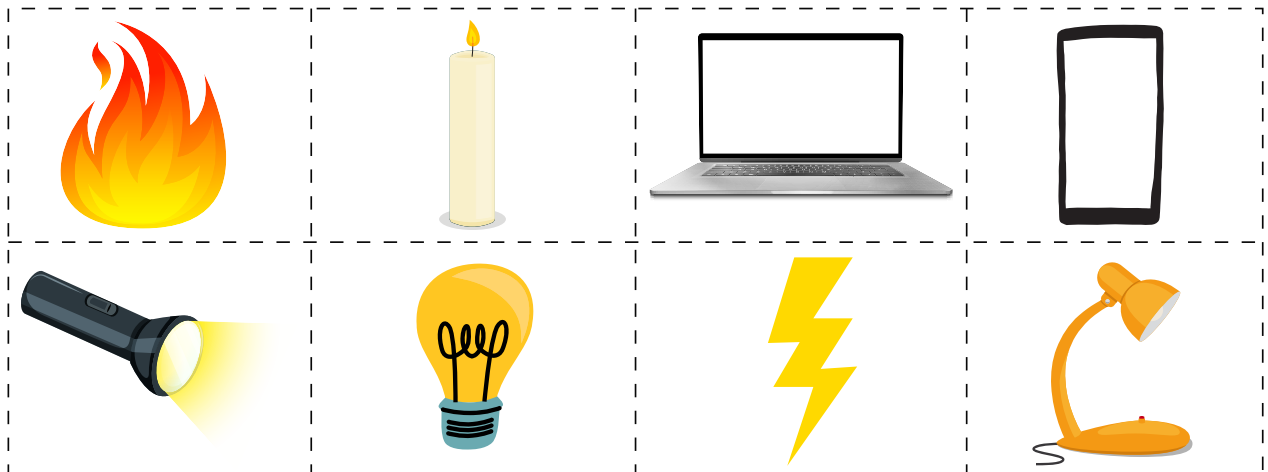


Name: \_\_\_\_\_

# Lights On!

Directions: Sort the different lights into two groups: Natural light and Artificial lights

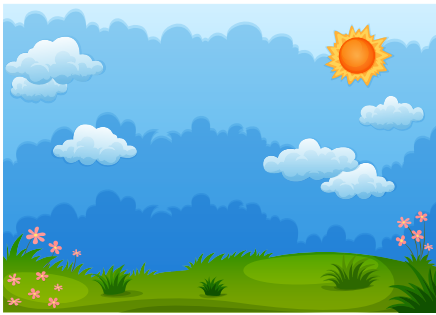
Natural Light	Artificial Light



Name: \_\_\_\_\_

# Sources of Light

Directions: Write man-made or natural under each light source.



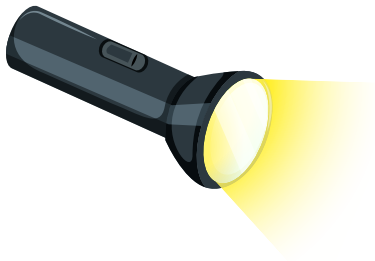
\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



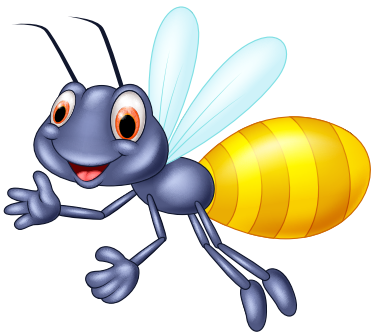
\_\_\_\_\_



\_\_\_\_\_



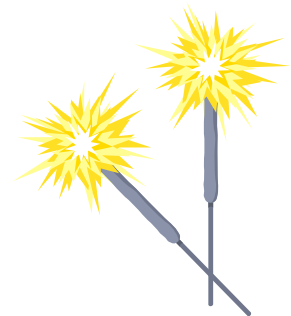
\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

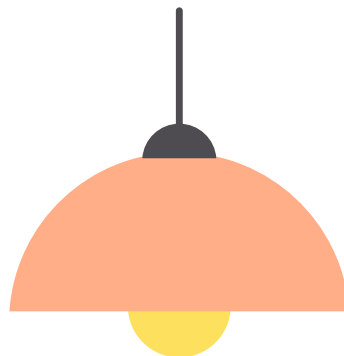
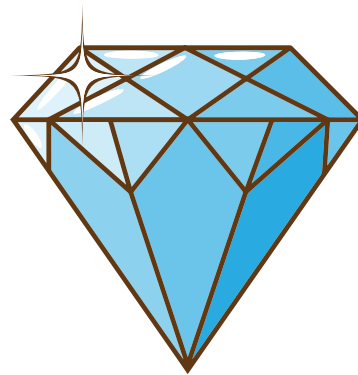
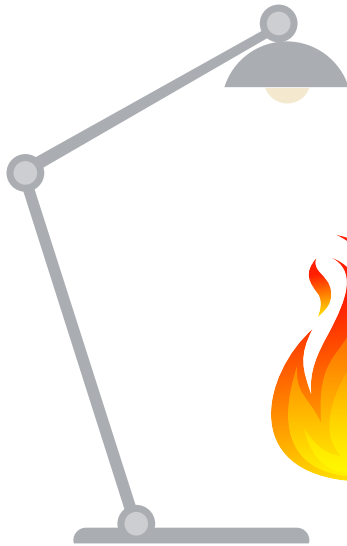
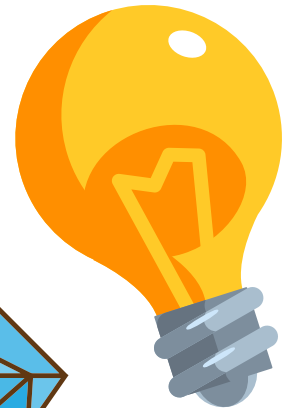
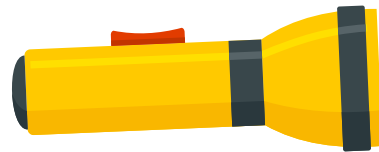
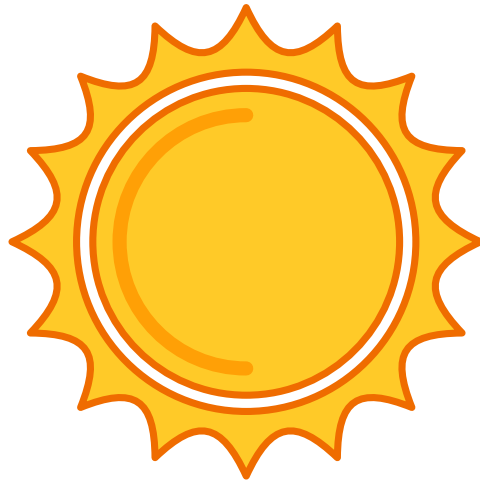


\_\_\_\_\_

Name: \_\_\_\_\_

# Light

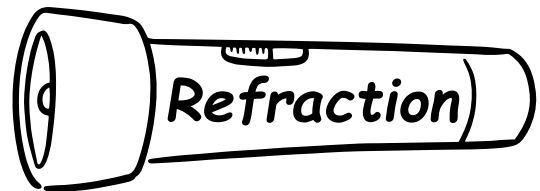
Directions: Cross out the objects below that give off their own lights.



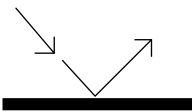
Name: \_\_\_\_\_

# Reflection or Refraction?

Directions: Cut out the boxes and glue them in the correct column.





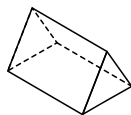


magnifying glass

when a spoon is put in a glass of water



light travels through a dense material like water

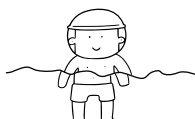


Prism

occurs when light bends

sunset over the sea

looking in a mirror



happens when light has a surface that is smooth