

I can summarize how light interacts with matter.

As you and your partners complete the activity at each station, fill in the table below. When you are finished, you will write a short summary about how light interacts with matter.

Station	Explain how light is reflecting, refracting, or being absorbed.	Is the material opaque, translucent, or transparent? How does this affect how light moves through the object?
Wax paper station		
Aluminum foil station		
Saran wrap station		
Penny station		
Mirror station		
Black or white station		

Station	Clarification
Wax paper station	Students will investigate how light moves through wax paper. Can use flashlight or work in front of a window.
Aluminum foil station	Students will investigate how light moves through aluminum foil. Can use flashlight or work in front of a window.
Saran wrap station	Students will investigate how light moves through saran wrap. Can use flashlight or work in front of a window.
Penny station	Place a penny (or other small object) in an empty bowl. Have students gather around the bowl where they can BARELY see the penny. Slowly pour water into the bowl. The students will see the penny “disappear or move”. Students will discuss refraction.
Mirror station	Using a mirror and a flashlight, students try to reflect their light onto an object behind them without turning around.
Black or white station	This station requires a sunny spot. Prior to the activity, place a black sheet of paper and a white sheet of paper next to one another in the sun. Place a thermometer on each sheet. Students will note the difference in temperature (thermal conductivity) on each sheet of paper and the reason for this difference.