is the bouncing back of a wave after it strikes an object.

How many times has reflection occurred when you see yourself in a mirror? Explain each time light is being reflected.

What does the law of reflection say?

In ____________________________ light beams reflect off all points at the same angle.

In ____________________________ light beams reflect off the surface at many different angles.

Figure 15 is a good example of diffuse reflection vs. regular reflection. You may want to add figure 15 to your notes.
is the transfer of energy from light waves to particles of matter.

Explain why the light from a flashlight can’t travel forever.

The release of light energy by particles that have absorbed energy is called _____________.

How does scattering explain why we have blue skies?

__________ is the bending of a wave as it passes at an angle from one medium to another.

Figure 17 shows why a light waves is bent when changing mediums. Include figure 17 in your notes.

A __________ is a piece of glass that separates white light into the colors of visible light by refraction.
Figure 19 is a good example of refraction. Include figure 19 in your notes.

Why do you think violet and blue waves are refracted more than red and orange waves?

When sunlight is refracted by rain droplets a ______________________ is formed.

_______________________________ is the bending of waves around barriers or through openings.

Why don’t light waves diffract very much?

How is a shadow formed? Draw a picture of how a shadow is formed. Make sure to include key terms when describing your drawing.
Why would diffraction make the area around the edge of a shadow blurry?

________________________ is a wave interaction that occurs when 2 or more waves overlap.

Figure 21 shows how interference affects light waves. Include figure 21 in your notes.