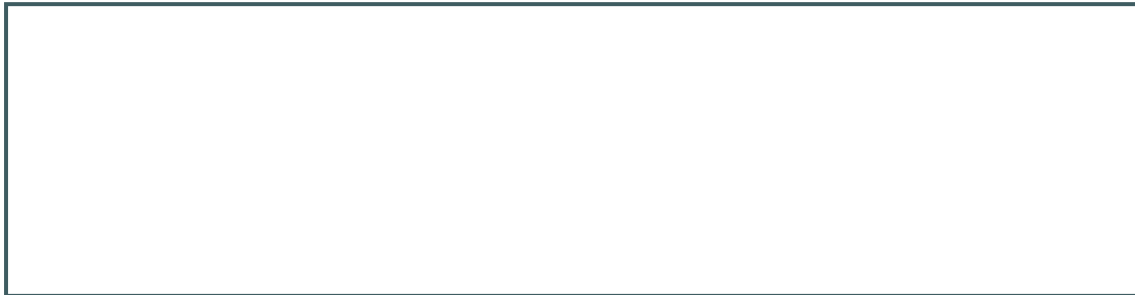


LIGHT CAN BEND AROUND EDGES!

1. When you see blobs of light clearly, draw what you see using color.



2. Notice there is a line of light perpendicular to the slit. While looking through the slit, rotate the pencils until they are horizontal. Notice what happens to the line of light. What happens when you rotated the pencils horizontal?
3. If you look closely, you may see that the line is composed of tiny blobs of light. What happens to the blob as you squeeze the slit together?
4. Notice that the blobs have colors. Record which color edges are closer to the light source and which are further away.
5. Stretch a hair tight and hold it about 1 inch (2.5 cm) from your eye. Move the hair until it is between your eye and the light source and notice that the light is spread into a line of blobs by the hair, just as it was by the slit. Rotate the hair. What happens to the blobs of light?

Look at the light through a piece of cloth, a feather, a diffraction grating, or a piece of metal screen. Rotate each material while you look through it.