1. Using a pencil, trace around the end of a paper tube on the construction paper. Make one circle and cut it out a little bit larger than the tube's opening.

2. Use a Xacto knife to make parallel cuts about 2 centimeters long across the middle of the circle. Use the knife to cut across the ends of the cuts to form a narrow slot across the middle of the circle.

3. Tape the circle to one end of the paper tube. Tape the diffraction grating to the other end of the tube.

4. Examine various light sources with the spectroscope. What do you see?