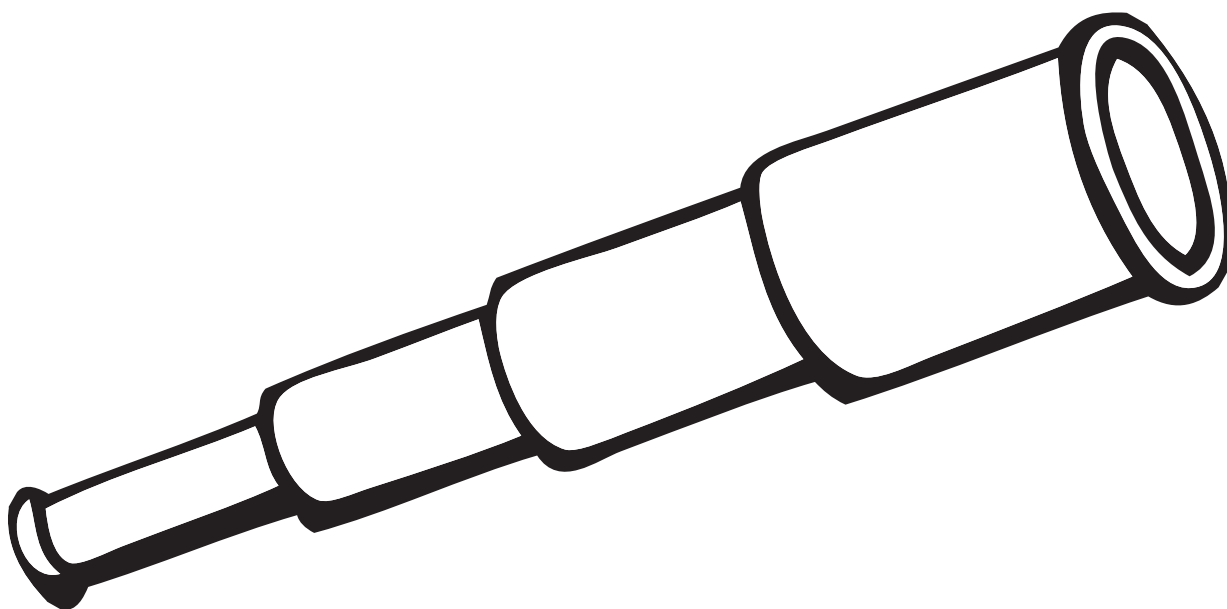




Name: _____

Class: _____

Build a Simple Telescope



You will need

- Two lenses with different focal lengths (150-mm and 500-mm double convex lenses are recommended)
- Paper towel roll
- 1 piece of long cardstock
- Tape

What to do

- 1) Roll up the cardstock the long way to form a tube that is about the same diameter as the lens with the shorter focal length. This will be the eyepiece. Tape the edges of the eyepiece lens to one end as firmly as possible.

2. Tape the second lens to the end of the paper towel tube. Insert the empty end of the paper tube into the cardboard tube.
3. Look through the eyepiece and point the other end of the telescope at a distant object. Slide the two tubes in and out until the object comes into focus. You will see the object upside-down and magnified. If you have difficulty focusing, try lengthening the tube, either by using a larger piece of paper for the eyepiece or a longer cardboard tube, such as a wrapping-paper tube.

You have just built a simple version of a refractor telescope!