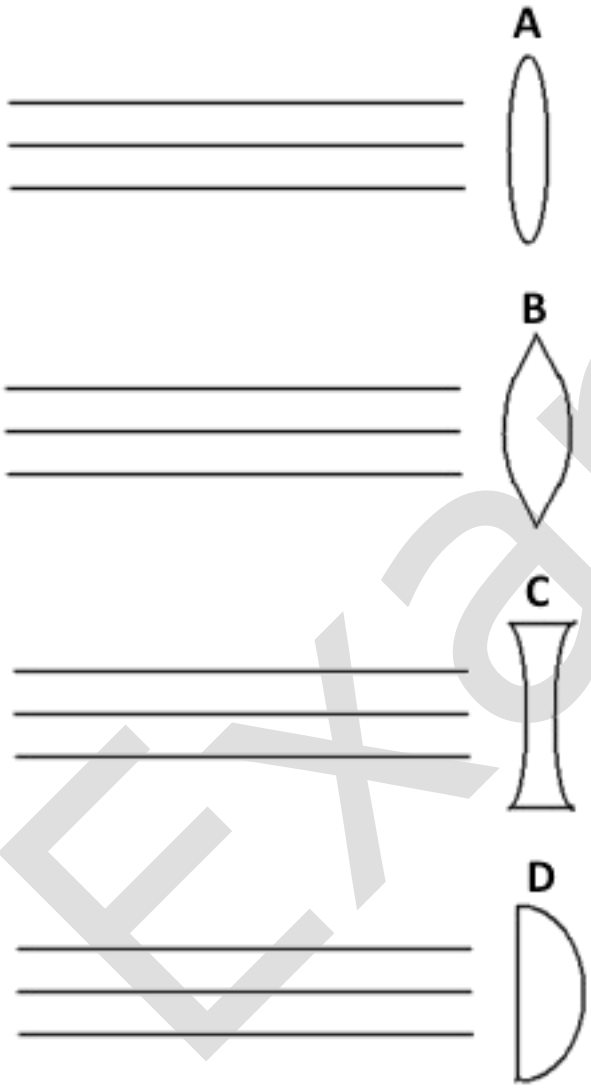
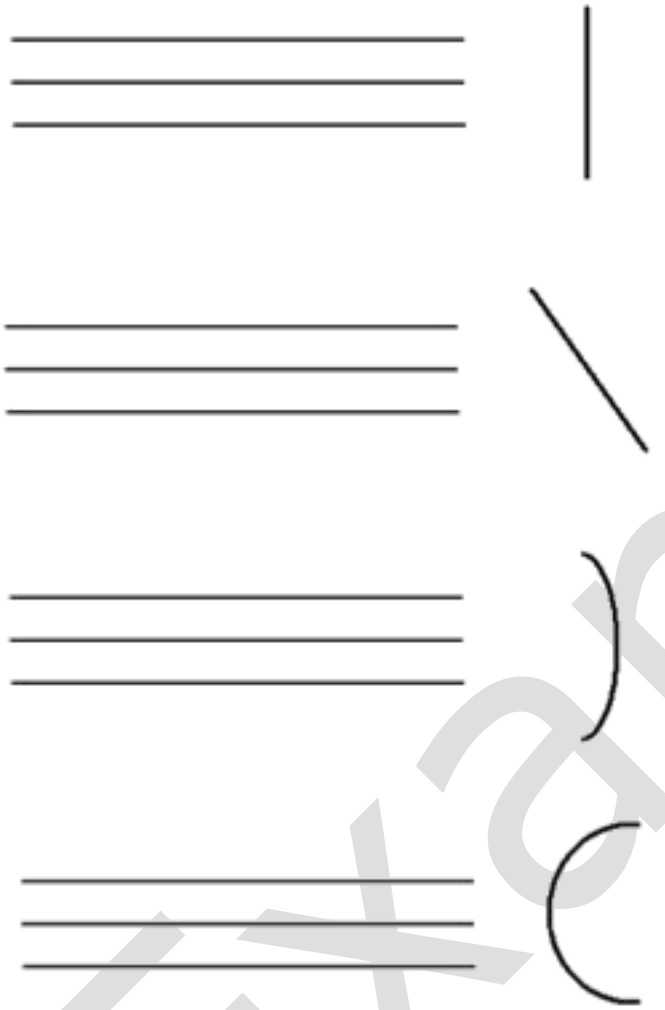
NAME: _____ **DATE:** _____

Lenses and Mirrors:
PREDICTIONS

Lenses allow light to pass through, but may change its path. Below are drawings of several types of lenses and the parallel lines represent light that is approaching the lens. Draw lines to show **what you think** will happen to the beams of light as they pass through the lens and come out the other side. **Be ready to explain your prediction.**



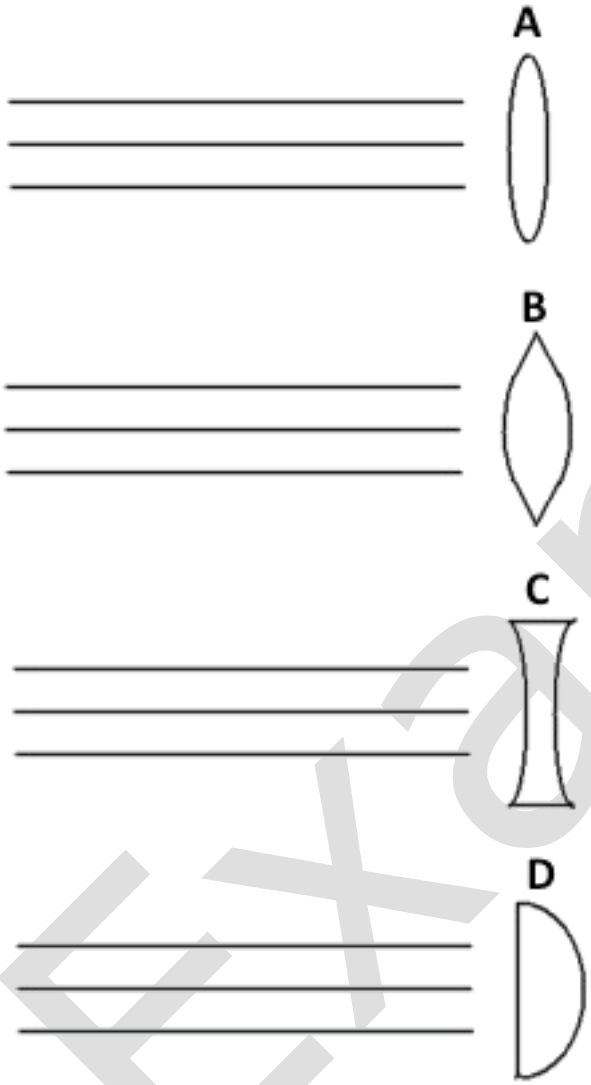
Mirrors reflect light instead of allowing it to pass through. Below are images of several different types of mirrors and the parallel lines represent light that is approaching the mirror. Draw lines to show **what you think** will happen to the beams of light as they are reflected off of the mirror. **Be ready to explain your prediction.**



NAME: _____ **DATE:** _____

Lenses and Mirrors:
OBSERVATIONS

After you have written your predictions on the first handout, take turns with your teammates using the materials in the kit to try each type of lens below. Draw lines to show **what actually happened** when you tested each lens.



If you had to put the above lenses labeled A-D into two groups or categories, how would you describe each group? Please describe the two groups below and write which lenses would fit into each group.

Category 1:

Category 2:

If you have drawn detailed observations for the lenses on the front of this page, you may move on to the mirrors below. Draw lines to show **what actually happened** when you tested each mirror.

If you have finished your observations for all of the lenses and mirrors pictured, see if you can find a way to **make a rainbow using the materials in your kit.** If you are successful, explain below how you made a rainbow, either in words or with a drawing.