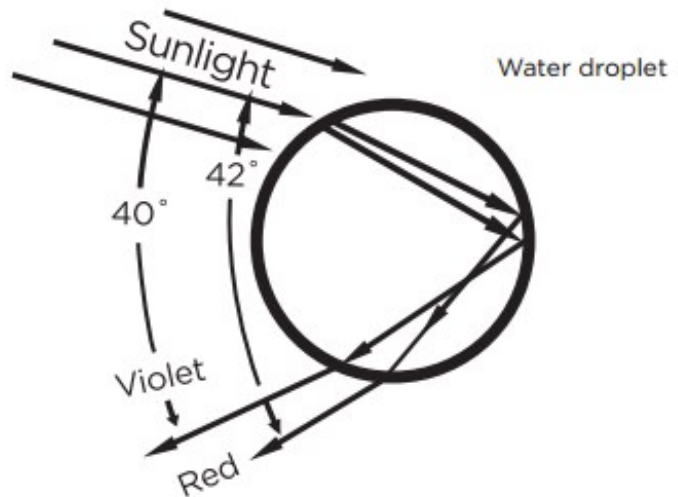


Indoor Rainbows

 scienceworld.ca/resource/indoor-rainbows/



Objectives

Describe how different colours of light mix to give new colours.

Materials

Per Student or Pair:

small glass vessel (vase, cup or bowl)
flashlight
mirror
water

Key Questions

- How is a rainbow created?
- We can't reproduce the Sun and rain droplets in class. What could we use to simulate both to produce our own rainbow?
- What colours do you see in the rainbow?
- What colour(s) was the source light?
- What acts as the glass with the water when we see a rainbow outside?
- When do you see rainbows across the sky? Why?

What To Do

1. Place a mirror in the glass vessel, tilted slightly upward.
2. Fill the glass vessel with water.

3. Shine the white light from the flashlight through the glass at the mirror and point out the rainbow. (You may need to darken the room; rainbows should appear on the walls.)

Extensions

- What happens if you only use the glass with no water in it? Does it still make a rainbow?
- Try looking at the rainbow through a polarizing filter. Is the entire rainbow still there?

Other Resources

Science World YouTube | [Search for Rainbows](#)