



Electromagnetic Spectrum Activity for Kids

Make a Rainbow DIY

 Duration: **15 min**  Difficulty: **Easy**  Cost: **\$0 to \$5**

Learn how to separate white light into different colors!

Material List

- 3** Glasses of Water
- 1** White Piece of Paper
- 1** Light from a Smartphone

Instructions

- 1** Take a glass of water and set it by the edge of the paper.
 - 2** Turn on your light and shine it through the glass of water and onto the paper at an angle.
 - 3** Try different angles and distances until you see a rainbow. It will take some trial and error!
- Tip** Some glasses work better than others so experiment to see what is best.

How It Works

When white light passes from the air and into the water, the different wavelengths of visible light bend and change direction slightly. Some wavelengths bend more than others, allowing us to see different colors. This is why we see rainbows after it rains! The red light has the longest wavelength and the blue light has the strongest wavelength.