

Name _____

Make a Rainbow with a Glass of Water



Make a Rainbow with a Glass of Water Instructions:

In this colorful project, you'll create a rainbow using just a glass of water and some sunlight. It's a simple experiment that demonstrates the science of light and color. Here's what you'll need:

Materials Needed:

- A clear glass of water
- A sunny day (or a bright flashlight if it's cloudy)
- A white sheet of paper
- A piece of white paper or cardboard (to block part of the light)

Steps:

1. Find a sunny spot by a window or go outside on a sunny day. If it's cloudy, you can use a bright flashlight.
2. Fill the clear glass with water about three-quarters full.
3. Place the glass of water on a white sheet of paper. This will help you see the rainbow better.
4. Hold the piece of white paper or cardboard above the glass to partially block the sunlight. The paper should cast a shadow over part of the glass.
5. Look closely at the edge of the shadow on the glass. You should see a beautiful rainbow appear on the edge of the shadow.
6. The rainbow is created because sunlight is made up of different colors. When it passes through the water and bends, it separates into the colors of the rainbow.
7. You can experiment with the angle of the paper or cardboard to make the rainbow bigger or smaller.
8. Have fun creating rainbows and observing how they form. You can even try this project with a friend and see who can make the most vibrant rainbow!