THE BEST

WALKING WATER

RAINBOW EXPERIMENT

This is a super easy and colorful experiment you can safely do at home with materials you will find in the kitchen!

WALKING WATER SCIENCE

INTRODUCTION

This walking water experiment is one of my all time favorites! It's based on the principles of chromatography - a scientific procedure where liquid mixtures are separated using paper. It's a fast experiment that will happen before your eyes! You will actually see the colored water moving. Here's how you can easily make water walk in your own home!

IMPORTANT INFORMATION

Remember that food coloring and liquid watercolors can stain skin, clothing and furniture. It might be a good idea to use a drip tray or some sort of protective mat to prevent spills from damaging surrounding areas. Wearing an art smock or old clothing may also be a good idea! ALWAYS supervise your children carefully for the duration of the experiment. Join in with your children. It will be fun!

HOW TO USE THIS WORKBOOK

Read through all the information in this workbook. You will find the materials and step-by-step instructions required to make your own walking water rainbow. Print the worksheet and complete alongside your experiment. Enjoy!

WALKING WATER RAINBOWS

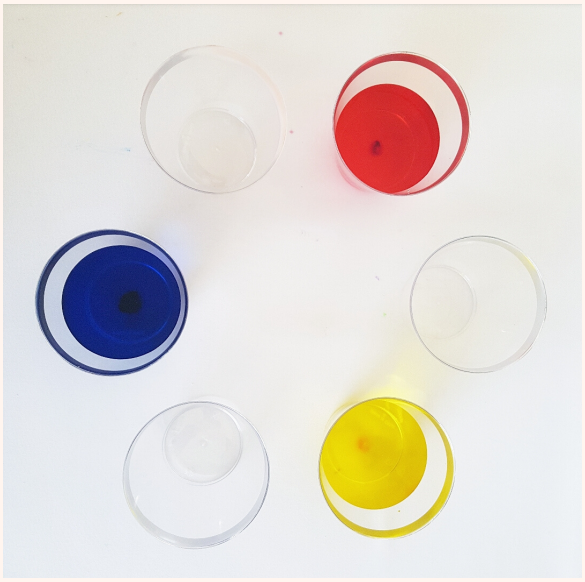
Here are the instructions for how to make your own walking water rainbow. The finished rainbows will look like this first picture below.

MATERIALS

You will need:

- 6 small plastic glasses
- Water
- Food coloring
- Paper Towel

INSTRUCTIONS



1. Add water and food coloring to every second glass as pictured.

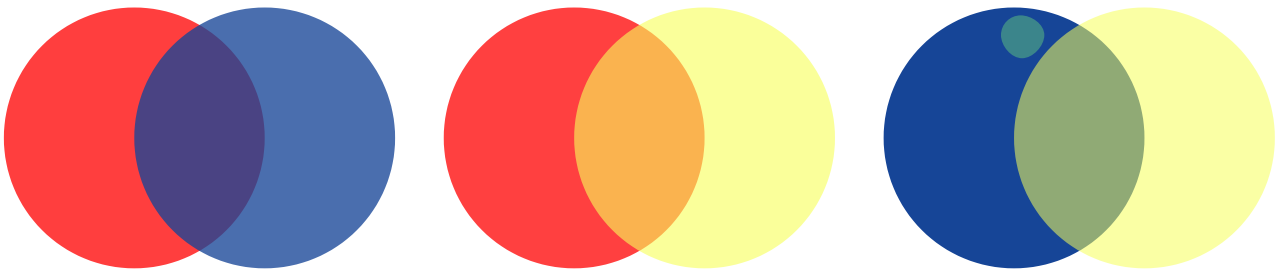
2. Fold paper towel and connect between two glasses.

3. The water move through the paper towel to the empty glasses where it pools and mixes to form a new color.

4. Your cups will look like this from the side. See how the blue and yellow water has pooled in the empty cup to make green?

DISCUSSION

In this experiment, the paper towel absorbed the colored water and transported it to the the adjacent empty cup. The colors pooling in the empty cups mixed together to form the secondary colors orange, green and purple. As the water moves, it appears to defy gravity. In actual fact, it is moving via a process called capillary action. Here's a fun color mixing chart below to remind you of how primary colors mix.

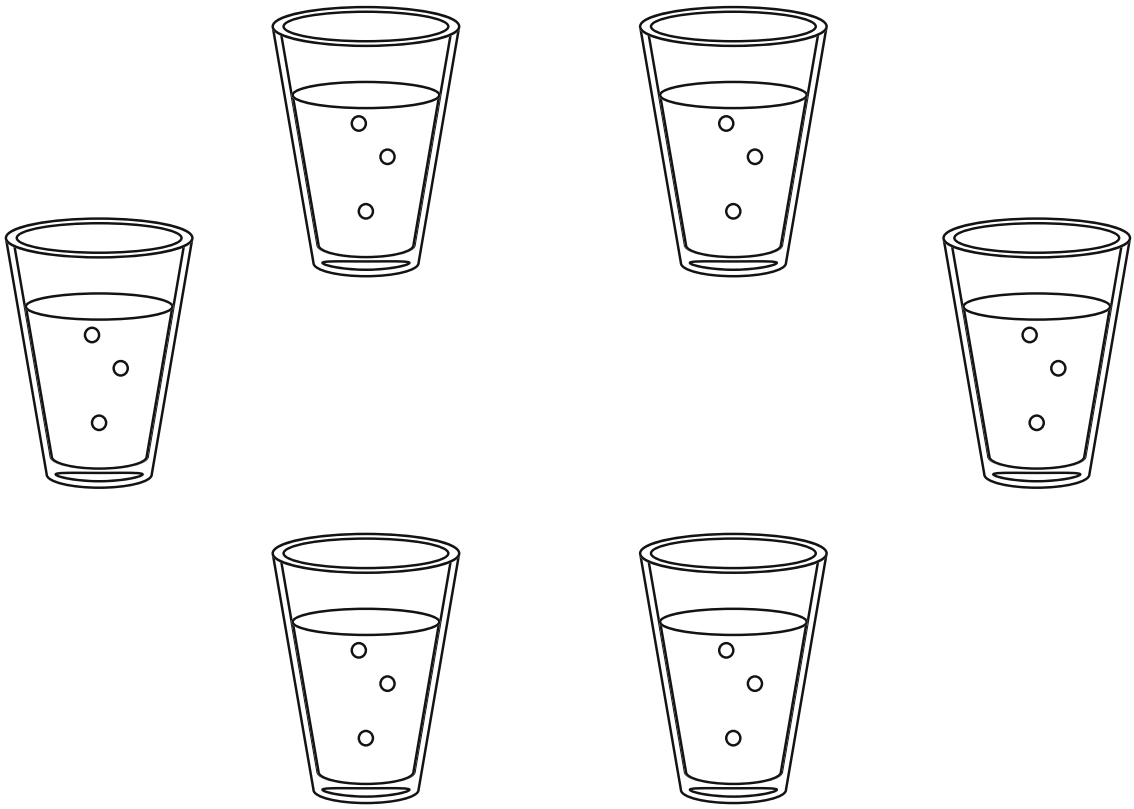


WALKING WATER RAINBOWS

NAME: **DATE:**

WHAT DO YOU THINK WILL HAPPEN:

DRAW WHAT HAPPENED:



EXPLAIN WHAT HAPPENED: