

# JR-SCIENTISTS

# MARBLED PAPER

Try something a little different by making your own colorful marbled paper with a few simple supplies.

## INSTRUCTIONS

**STEP 1:** Pour water into the shallow dish.

**STEP 2:** In a jar, pour the vegetable oil. Add food coloring to the vegetable oil. Close the lid and shake until the color is blended with the oil.

Repeat to make different colors.

**STEP 3:** Ask your child to use eye droppers to drip colored oil onto the water in the dish.

**STEP 4:** Place a sheet of thick paper onto the colored oil and water. Gently press until the paper has come in contact with the water. Immediately remove the paper, allowing the excess water to drip back into the dish. Let dry.

## THE SCIENCE

Why don't oil and water mix? Do you notice the oil and water separate to make the fun marbling pattern? The water molecules attract each other, and the oil molecules stick together. That causes oil and water to form two separate layers.

Water molecules pack closer together so they sink to the bottom, leaving the oil sitting on top of the water. That's because water is heavier than oil. Making a density tower is another great way to observe how not all liquids weigh the same.

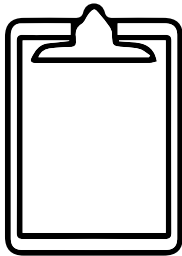
## SUPPLIES:

**Vegetable oil**  
**Liquid food coloring**  
**Water**  
**Thick paper, like cardstock**  
**Shallow dish**  
**Jars with lids**  
**Eye droppers**



# Marbled Paper Observations

Use this worksheet to process and evaluate your work.



RECORD

What did you observe ?

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Why don't oil and water mix?

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Does the food coloring behave like water or oil?

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What did you learn?

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