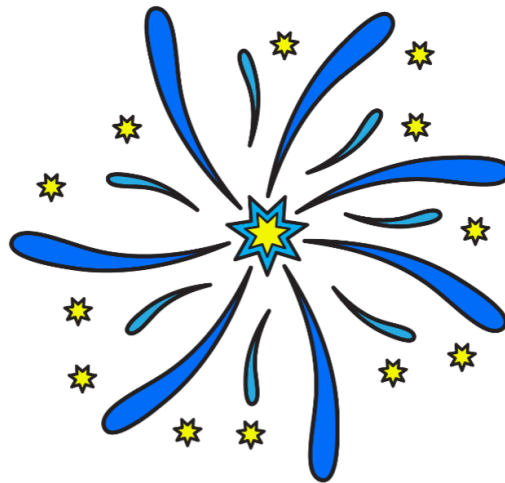


FOURTH OF JULY SCIENCE EXPERIMENT



for
Preschoolers



FIREWORKS IN A CUP SCIENCE EXPERIMENT

OBJECTIVE:

Observe the effects that oil and water have on food coloring.

MATERIALS:

- **Plastic or glass cups**
- **Oil (baby oil or vegetable oil)**
- **Water**
- **Food Coloring (I used red and blue for 4th of July but you can use any colors)**
- **Optional- Pipettes for child to drop in food coloring on their own.**

INSTRUCTIONS:

Set out a cup for each student (or one big cup if doing in front of the class). Fill the cup two-thirds of the way with water. Add 2-3 tablespoons of oil. Watch how the oil and the water does not mix, the oil will sit on top of the water. Add drops of food coloring around the top of the oil layer. The food coloring will also not mix with the oil, instead it will drop through the oil layer and into the water where it then will disperse. This will look like fireworks inside of the cup. For added effect, turn on a video of fireworks popping in the sky as the food coloring disperses into the water!



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