

## **Water Fireworks!**

A shared idea from our friends at  
*Paging Fun Mums*



### **Simple Supplies:**

- Food Coloring
- Warm Water
- Cooking Oil (Olive, Vegetable, or Peanut for example)
- Two Clear Glass
- Fork

\*Tip – For best results, use a smooth clear glass without angles or corners.

### **How To:**

1. Fill the first glass  $\frac{3}{4}$  of the way to the top with warm water.
2. Fill the second glass with three tablespoons of oil.
3. Add four drops of food coloring to the second glass. Make sure to use different colors.

- Using the fork, gently stir the oil and the food coloring to break the color drops into smaller drops.



- Carefully pour the oil and food coloring mixture into the glass with the warm water.
- Sit back and watch the magic happen.

### **How It All Works:**

First, it's good to know that food coloring easily dissolves in water, but not in oil. When you stir the food coloring in the oil, instead of it dissolving into the oil and changing the oil's color, it simply breaks up the coloring droplet into smaller ones. You will notice, however, that even in the oil, some of the food coloring drops will merge when mixing and they come into contact with each other (blue + red = purple). When you pour the oil mixture into the glass of water, the oil simply floats on top of the water like a boat because the oil is denser than the water. Then like a little diver jumping off the boat of oil, the colored drops sink to the bottom of the oil and mix with the edge of the warm water. That causes the color drops to diffuse outwards and downward as the heavier colored drop falls to the bottom of the glass.