Milk Fireworks

1. Pour enough milk in the bowl to completely cover the bottom.
2. Put a few drops of color near the middle of the milk.
3. Dip the q-tip or toothpick in the dish soap and poke it in the middle of the colors.

**EXTRA**--It's an experiment, so let mix things up and see what happens. Do you have different types of milk? Different types of color? Does a toothpick work better than a q-tip? Does the amount of milk matter?

**What's Happening?**

- Food coloring (and liquid watercolors) will mix with water, but not fat.
- Dish soap breaks the surface tension of milk, allowing the color molecules to flow more freely.
- Dish soap will bind to the fat in the milk and create soap-fat molecules that shove the color molecules around the bowl in spectacular designs (aka fireworks!)
- Sticking the q-tip into the bowl also contributes to the currents of color and milk.

Thank You to the Rotary Club of Attleboro for sponsoring this project.