

VPOD Project

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Fireworks in a Jar

Instructions:

- Fill the jar three-quarters full of warm water.
- In a separate Cup, add three to four tablespoons of oil. Add several drops of food coloring in various colors to the cup of oil. Use a fork to mix the oil and food coloring together until small beads of color form.
- Slowly pour the oil mixture into the jar of water.
- Make sure the kids are watching what happens next. As the liquids combine, the food coloring will slowly sink out of the oil and into the water. When this happens, it will expand and begin to mix with the other colors, creating a cascading "fireworks" effect.

The science behind the project

Use this project as an opportunity to talk science with your kids! Why does the color seem to "fall" from the oil into the water? Food coloring dissolves in water but not in oil. Because the oil is less dense than the water, it will float at the top. The colored droplets will begin to sink because they are heavier than the oil. Once they sink into the water, they will begin dissolving slowly creating the tiny "explosions."

Materials:

- Glass jar
- Food coloring in assorted colors
- Vegetable oil
- Fork
- Small clear cup
- Measuring teaspoon

WHY USE CLIPS

I used clips to edit my video and explained a few things. This can be used in my classroom when students are videoing an experiment or just making a video about a certain topic.