

## Experiment: Do All Liquids Dissolve in Water?

When people wash dishes by hand, they use a liquid dish detergent. The dish detergent does not sit in a glob in the bottom of the sink—it dissolves in the water. Try this experiment to see if all liquids dissolve in water.

## What You Need

- Isopropyl alcohol (rubbing alcohol)
- Corn syrup
- Vegetable oil
- Water
- 6 clear plastic cups

## What You Do

- **1.** Use pieces of masking tape to label three of the cups with these labels: Alcohol, Corn Syrup, Vegetable Oil.
- Use masking tape to create labels for the other three cups: Alcohol + Water, Corn Syrup + Water, Vegetable Oil + Water.
- **3.** Pour 2 tsp. (10 ml) of alcohol into the cup with the appropriate label. (Use the cup with the label "Alcohol," **not** the cup labeled "Alcohol + Water.")
- **4.** Pour 2 tsp. (10 ml) of corn syrup into the appropriate cup, and 2 tsp. (10 mL) of vegetable oil into the appropriate cup.
- 5. Pour 2 tbsp. (30 ml) of water into each of the three cups with "+ Water" on the label.
- **6.** Pour the alcohol into the cup labeled "Alcohol + Water." Observe the cup from the side as you pour. Watch what happens and record your observations on the next page.
- Stir the alcohol and water with a straw and see whether the alcohol seems to dissolve in the water. (Keep watching from the side.) Record your observations.
- **8.** Repeat steps 6 and 7 for each of the other two liquids (corn syrup and vegetable oil). Make sure you pour each liquid into the correct cup. Record your observations after doing each step.



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- Masking tape
- 3 drinking straws
- 1 tsp. (5 ml) measure
- 1 tbsp. (15 ml) measure



Do **not** drink any of the liquids in this experiment.