

# Spring Science Activity

## Materials:

- Jelly Beans
- Small glass or plastic jars
- Warm water
- Rubbing alcohol
- Vinegar
- Cooking oil
- (Optional) Spoon or stirring utensil

## Directions:

1. Prep your materials. Place a few jelly beans in the bottom of each jar.
2. Fill one jar each with either warm water, rubbing alcohol, vinegar, and cooking oil - enough to just cover the jelly beans.
3. Write down what you think will happen with each jar - make your hypothesis!
4. (Optional) Play around with the liquids! Stir, shake, or do whatever you think might make the jellybeans to change or dissolve.
5. Make and write down your observations. Which liquids cause jellybeans to dissolve, and which cause them to stay intact?
6. Cover jars and leave them. You can make observations days and weeks after the initial experiment. Do jellybeans dissolve more the longer you leave them?

## What are we learning?

We are learning how different liquids and processes dissolve solids. When something dissolves, a substance, in this case our jellybeans, breaks down and mixes with another substance, in this case our liquids. The two mix and form what is called a solution. For a liquid to dissolve a solid, the molecules in the liquid and the solid must be attracted. This experiment helps us to figure out which liquids actually dissolve our jellybeans and whether including physical stimuli such as shaking or stirring, either speed-up or enhance the solubility of our solid. We are also learning how to form a hypothesis and carry out an experiment.

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# Observation Sheet

Experiment with dissolving jelly beans in different ways. Try one or try them all!  
 Use this sheet to write down your observations. Use the blank rows to try your own combinations and see what happens!

Materials	Additional stimuli? (Shaking, stirring, etc.)	Hypothesize! What do you think will happen?	Observe! What happened? What did it look like?
Jelly Beans + Warm Water			
Jelly Beans + Rubbing Alcohol			
Jelly Beans + Vinegar			
Jelly Beans + Cooking Oil			

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