

# JR-SCIENTISTS

# WHAT DISSOLVES?

The is a super fun kitchen chemistry science experiment for kids that's totally easy to set up!

## INSTRUCTIONS

**STEP 1:** Once you have discussed your ideas, add a tablespoon of each material to a jar.

**STEP 2:** Next, pour 1 cup of warm water into each jar. A good scientist carefully measures so that all variables but one are the same.

**STEP 3:** Lastly, you want to give each jar a stir and then wait 60 seconds. I love having a kid-friendly stopwatch on hand for these activities.

## SUPPLIES:

Sugar  
Salt  
Gelatin powder  
Flour  
Pepper  
5 clear jars  
Water  
Stirrers

Once the time is up, your kids can determine which materials dissolved in the water and which didn't. Were they correct? Did they need to change their answers?

## THE SCIENCE

It might just seem like you are making a bit of a mess, but you are actually experimenting with a concept in chemistry called solutions. By mixing these solids (solutes) with a liquid (solvent), you may or may not have created solutions.

What is a solution (or you might also hear it called a mixture)? A solution is when one substance (our solid) is dissolved in another substance (the water) with an even consistency. This is called a homogeneous mixture.

You can mix in two or more substances but for our experiment, we are just mixing one solute and the one solvent together. Generally, the solute is smaller in quantity than the solvent. What would happen if it were the other way around?



# What Dissolves Observations

Use this worksheet to process and evaluate your work.

I predict these will dissolve.

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I predict these will not.

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## RESULTS

Item

Yes, it dissolves!

No, it does not.

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What did you learn?

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# WHICH SOLIDS DISSOLVE IN WATER?

## SCIENCE EXPERIMENT

SUPPLIES: jars, water, sugar, salt, gelatin powder, flour, pepper, or choose your own solids



**SOLID #1**

**DOES IT DISSOLVE?**



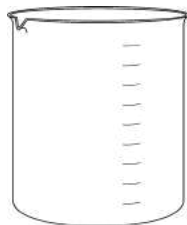
**SOLID #2**

**DOES IT DISSOLVE?**



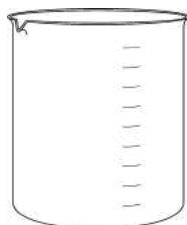
**SOLID #3**

**DOES IT DISSOLVE?**



**SOLID #4**

**DOES IT DISSOLVE?**



**SOLID #5**

**DOES IT DISSOLVE?**