

Lab Sheet: Dissolving Substance In Water

Materials needed	<ul style="list-style-type: none">• four glasses and/or mason jars• four cups of room temperature water (one per glass)• four spoons or stir sticks• a tablespoon of each of the following: sugar, salt, flour, and oil (vegetable or canola) <p>If you can't access these options, you can still try with some of the other materials.</p>
Hypothesis – what do you think will happen?	<p>What do you think will happen when you mix each of these substances into the water? Will any dissolve? Why do you think this?</p>
Procedure	<ul style="list-style-type: none">• First, fill each glass jar or beaker with water.• Then, stir in each substance one at a time and record your observations.

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Observations *Remember observations can be recorded with pictures, numbers and/or words!	Record observations for each substance here: Observe the size of the particles, the method of dissolving the particles, the temperature of the water, etc.	
	Sugar	
	Salt	
	Flour	
	Oil	
Conclusions		

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Follow-up questions

Which of the substances were soluble and which were insoluble? How do you know?

Which substances dissolved faster? Slower? Why do you think this is?

What happened to the particles in the substances that dissolved?

Which factors that affect a substance's ability to dissolve were important in this experiment? Why?

What is the difference between a solvent and a solute in a solution?

Why is water a universal solvent?