

Will it dissolve?

You will dissolve sugar in water to make a solution, saturation and super saturation.

Some words to consider:

Solute: the substance being dissolved in the solution. In this case, it is the sugar and Kool-Aid.

Solvent: the substance that dissolves the solute. In this case, it is the water.

Soluble: a substance that is capable of being dissolved in the solvent.

Insoluble: a substance that is incapable of being dissolved in the solvent.

Directions: Stir solute into the solvent at the following measurements

	Sugar(solute)	Cold Water(solvent)	Warm Water(solvent)	Hot Water(solvent)	Is solute soluble or insoluble?
1.	1 tablespoon	1/2 cup	1/2 cup	1/2 cup	
2.	1/4 cup	1/2 cup	1/2 cup	1/2 cup	
3.	1/2 cup	1/2 cup	1/2 cup	1/2 cup	
4.	Make up your own measurement to test	1/2 cup	1/2 cup	1/2 cup	

Some things to try and more questions to ask:

1. How did the temperature of the water (solvent) effect the solubility of the solute? _____
2. Add Kool Aid to solution # 2. Is Kool-Aid soluble in water? _____
2. Using a different cup, try dirt in the place of the sugar and repeat experiments. Is dirt soluble in water? _____ Leave the solutions out for a few hours. What happens? _____