Name:	Class:
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saturation

Purpose:

The purpose of this experiment is to determine the saturation point of sugar in water.

Equipment:

- 2 Clear plastic Cups
- 2 Spoons
- ~120 g Sugar
- 100 ml Water
- Balance
- Measuring Cups



Hypothesis:

I think that I will need to add	g of sugar to 100 ml of water to make it a saturate
solution	

Procedure:

- 1. Pour 100 ml of water into one of the clear plastic cups.
- 2. Spoon approximately 120g of sugar into the second plastic cup. Then, mass the sugar cup, with sugar in it, and record this mass.
- 3. Using the spoon add a spoonful of sugar into the water and stir it.
- 4. If the sugar is completely dissolved repeat step 3, if not move on to step 5.
- 5. Re-mass your sugar cup, with the remaining sugar, and record this mass.
- * Do not dispose of your solution until instructed to do so.

Data:

Quantity of water used:	ml
Mass of cup and sugar prior to experiment:	g
Mass of cup and sugar after experiment:	g
Amount of sugar in solution:	g

Name	Class:
Que	stions:
1.	Saturation point is the concentration of a solute in a solvent at the point when the solvent is unable to dissolve any more solute. It is a measurement that states how much of a solute can dissolve in a solvent at a given temperature. Based on your data what is the saturation point of water at approximately 20 °C?
	Concentration of Solution = Mass of Solute Dissolved ÷ Volume of Solvent
	Concentration of Solution = \div
	Concentration of Solution =
	Therefore the saturation point of the sugar in water solution is
2.	How does your calculated value in question #1 compare to your hypothesis?
3.	Each person in the class will have determined a different value for the saturation point of sugar in water. Why are these values different? Explain three reasons in detail.