

(KEY)

Use your 4-2 packet notes to complete the following on a separate sheet of paper

- 1) When iced tea mix is dissolved in water, a homogenous mixture called a Solution is formed.
- 2) What are the two parts of a solution?
Solute + Solvent
- 3) In iced tea, what is the solute? What is the solvent?
Sugar/mix = Solute Water = Solvent
- 4) What does it mean if something is soluble? Give an example of something soluble.
It is able to be dissolved Salt
- 5) What does it mean if something is insoluble? Give an example of something insoluble.
It cannot be dissolved Sand
- 6) What are the three terms we can use to describe the concentration of a solution?
Unsaturated, Saturated, supersaturated
- 7) Define a dilute solution.
Weak solution - a little amount of solute
- 8) Define a concentrated solution.
Strong solution - a lot of solute
- 9) Name three things that can increase the rate of solubility.
inc. temperature, inc. surface area, inc. pressure, inc. stirring
- 10) What type of solution can dissolve more solute?
Unsaturated
- 11) What type of solution has all the solute it can hold?
Saturated
- 12) What type of solution has more solute than it can hold?
Super-saturated
- 13) If sand, sucrose and water were mixed together in a glass, explain why the sugar would no longer be visible and why the sand will sink to the bottom of the glass.
The sugar will dissolve and the sand would sink because of its density
(it is soluble) (it is insoluble)