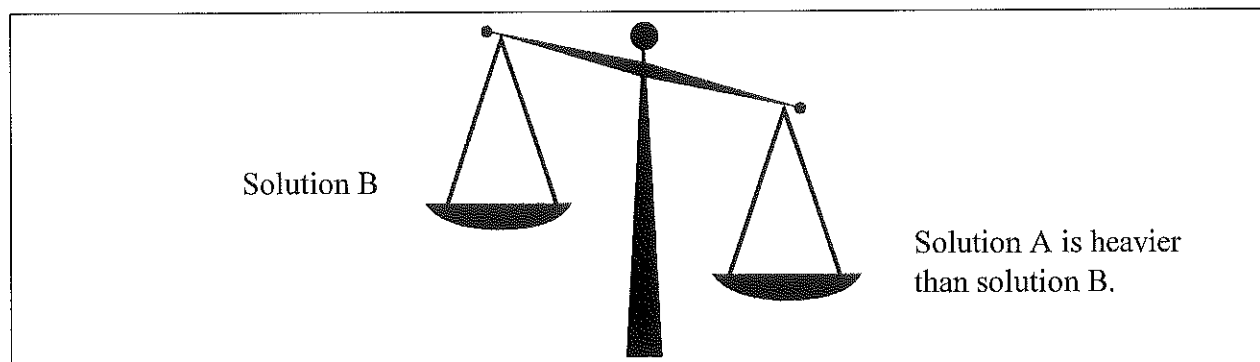


Science Investigation 1 Study Guide

My quiz is on: ___ / ___ / ___

- Mixture: two or more materials put together, or combined
 - Examples: sand; soup made with vegetables and water; salad mixture of lettuce, carrots, and tomatoes
- Solution: a mixture of one or more substances dissolved in solvent
 - Example: a mixture of salt and water
- Solvent: a substance in which a solute dissolves to form a solution
 - Example: The water is the solvent in a salt and water solution
- Solute: a substance that dissolves in a solvent to form a solution
 - Example: The salt is the solute in a salt and water solution
- You dissolve a certain amount of salt in a liquid. After the liquid evaporates, you have the same amount of salt left.
- When looking at pictures of crystals, you can compare crystals by looking at their shapes.
- A volume of 1 mL of water weighs 1 gram. Or 1 gram of water will take up 1 mL of volume.
- When using a balance scale, you have two solutions (Solution A and Solution B). If Solution A is heavier than Solution B, the scale will tip down on the side of the side of the heavier solution. (See picture below.)



- When you know the particle size of materials in a mixture, you know which tools to use to separate them.
- Understand what happens to the mass of a solvent when a solute is added. Think about the salt water solution:
 - 50 mL of water weighed 50 grams
 - Add 5 grams of salt, and now the weight is 55 grams.

- Know the steps of separating a mixture so each material is in its own cup.
- Be able to explain and draw what happens when dissolving occurs.
- Understand that some mixtures can be separated with a screen or filter, depending on the particle size. Understand what happens when a solid dissolves in water—the particles are too small to be screened or filtered out. How can you separate it?
- Fossweb.com (reread text, vocabulary practice, activity)

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