Year 8 Science: Mixtures, solutions, concentration and separating

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. Muddy water from a creek is left in a jar overnight and a layer of soil forms on the bottom. Was it a solution or a suspension?

2. Drink A has 15 g of sugar in 500 mL. Drink B has 12 g in 250 mL. Which is more concentrated?

3. You stir sugar into cold water until some stays at the bottom however long you stir. What word describes the solution, and what could you change so more dissolves?

4. Which method would you use to separate gravel from sand?

5. In a chromatogram of a green food colouring, a yellow spot is near the top and a blue spot is lower. Which dye clings more strongly to the paper?

Fix the mistake

6. Correct this statement: "When salt dissolves in water it disappears, so the salt is gone."

7. Correct this statement: "A solution with more grams of solute is always more concentrated."

8. Correct this statement: "Flour stirred into water is a solution."

9. Correct this statement: "In chromatography, draw the start line in pen and put it under the water."