

Name:

Date:

Class:

Mines to Mobiles Post Test **Answer Key**

1. What is an aqueous solution?
 - a. A solid mixture
 - b. A liquid mixture with water as the solvent**
 - c. A gas mixture
 - d. A solution without any water

2. In a saltwater solution, what is the solvent?
 - a. Salt
 - b. Water**
 - c. Both salt and water
 - d. Neither salt nor water

3. In a saltwater solution, what is the solute?
 - a. Salt**
 - b. Water
 - c. Both salt and water
 - d. Neither salt nor water

4. What happens to the concentration of a solution if you add more solute without adding more solvent?
 - a. It decreases
 - b. It stays the same
 - c. It increases**
 - d. It disappears

5. Why do smaller-sized objects dissolve faster than larger-sized objects?
 - a. Increased surface area increases the rate of dissolving**
 - b. Decreased surface area increases the rate of dissolving
 - c. Increased surface area decreases the rate of dissolving
 - d. Decreased surface area decreases the rate of dissolving

6. What does it mean to dilute a solution?
 - a. To add more solute to it
 - b. To add more solvent to it**
 - c. To take away some solvent
 - d. To take away some solute

Name:

Date:

Class:

7. You are trying to get calcium metal to dissolve in acid. What would be the best way to agitate the solution?
- Gently swirl the cup 3 times using your finger
 - Do not agitate the cup, this will cause the calcium to clump together
 - Gently stir the cup for 10 seconds using a thin plastic straw
 - Gently stir the cup for 60 seconds using an acid-resistant spoon made of gold metal
8. You accidentally added three times the amount of sugar needed for lemonade, and it isn't dissolving. You are out of sugar and have not added the lemons yet. How can you alter the solution to help dissolve the sugar?

Answers will vary but could include the following:

- Heat the solution while agitating it to help the sugar dissolve.
- Add more water to the solution while agitating it to help the sugar dissolve.
- A combination of more water, more heat, and agitation.