**HOW SUBSTANCES DISSOLVE**

**DIRECTIONS**: Read, “How Substances Dissolve.” As you read the article, Answer the following questions in complete sentences.

1. Why is water called a universal solvent?
2. Why does a water molecule have partial charges?
3. Draw a diagram showing water dissolving salt or NaCl.
4. Why can water dissolve NaCl but not AgCl?
5. What are hydrogen bonds?
6. Name 3 molecular compounds that are polar and can dissolve in water.
7. Could salt (NaCl) dissolve in olive oil? Explain your answer.
8. A solute such a sugar dissolves in water due to what 2 things?
9. How does an increase in surface area help a solute like sugar dissolve more quickly?
10. How does an increase in temperature help a solute dissolve?
11. How does stirring a solution allow more contact between solvent and solute particles?
12. Define the following (use the definition on this article):
13. Hydrogen bond
14. Nonpolar
15. Polar