

WKS  
Solution Characteristics

Name \_\_\_\_\_  
Period \_\_\_\_\_ Date \_\_\_\_\_

- 1) Describe the characteristics of a solution and identify the various combinations of solid, liquid, and gas that can combine to form a solution.
  
- 2) What are the two components of a solution? List the properties of each:
  - a.
  
  
  
  
  
  
  
  
  
  
  - b.
  
- 3) What does it mean for a material to be soluble? What predicts the solubility of a material?
  
- 4) What is it called when two liquids are soluble? When two liquids are insoluble?
  
- 5) What kinds of materials (polarity) can dissolve in polar solvents like H<sub>2</sub>O? What intermolecular forces are responsible in each case?
  - a.
  
  
  
  
  
  
  
  
  
  
  - b.
  
  
  
  
  
  
  
  
  
  
  - c.
  
- 6) Why do two nonpolar materials mix?
  
- 7) What is solvation? What factors affect the rate of solvation?
  
- 8) What is the role of intermolecular forces in solvation?