

Name: _____

For Teacher Use Only:

Minutes _____

Approved _____

Lab: Dissolve This!! Lab Credit Sheet

Answer the following questions with thoughtful, detailed answers in complete sentences. Cite specific examples from your observations and results of the lab activity.

1. Solubility

- a. What is the relationship between the solubility of KNO_3 and temperature? Explain how your lab data supported this conclusion.

- b. Most substances behave like KNO_3 with changes in temperature, but there are a few exceptions. What type of substances are the exceptions? Explain WHY they behave this way, *in terms of particle behavior*.

2. Like Dissolves Like

- a. Summarize your lab results... Which of these substances dissolved in water? Which did not?
 - i. NaCl
 - ii. Sugar
 - iii. Vegetable oil
 - iv. vinegar

- b. Explain, in terms of molecular polarity, why you got *each* of these results.