

Worksheet: Liquids, Solids **Key**

1. Do the following properties result from strong or weak intermolecular forces?

- | | |
|-------------------------|---------------|
| a. high boiling point | <u>strong</u> |
| b. low viscosity | <u>weak</u> |
| c. high surface tension | <u>strong</u> |
| d. high vapor pressure | <u>weak</u> |

2. Which type of crystalline solid is formed by each substance?

- | | |
|--|------------------------|
| a. CaCl_2 | <u>ionic solid</u> |
| b. Fe | <u>metallic solid</u> |
| c. sugar ($\text{C}_{12}\text{H}_{22}\text{O}_{11}$) | <u>molecular solid</u> |
| d. $\text{NH}_3(\text{s})$ | <u>molecular solid</u> |