

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

### Structure-Property Relationships Worksheet

#### **PART I VOCABULARY**

Directions: Answer the following questions based on viewing the Structure and Property Changes of Water video, classroom discussion, and your research of the key terms below.

For questions 1-9, use the word bank below. All words will be used one time.

<b>condensation</b>	<b>liquid</b>
<b>deposition</b>	<b>melt</b>
<b>evaporation</b>	<b>solid</b>
<b>freeze</b>	<b>sublimation</b>
<b>gas</b>	

1. The phase change from gas to liquid is called \_\_\_\_\_.
2. Ice is the \_\_\_\_\_ phase of water.
3. This phase of water is invisible. \_\_\_\_\_
4. \_\_\_\_\_ occurs when energy is added to liquid water.
5. Frost is an example of \_\_\_\_\_.
6. Ice will \_\_\_\_\_ when energy is added to it.
7. The phase change from solid directly to gas is called \_\_\_\_\_.
8. When liquid water loses energy it will \_\_\_\_\_.
9. When water vapor cools it turn into a \_\_\_\_\_.
10. Describe the arrangement of the water molecules in their solid form.

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11. What happens to the arrangement of the molecules in ice when energy is added?

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12. What physical changes occur when ice melts?

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13. What causes the physical changes in water when it melts?

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14. Describe the arrangement of the water molecules when liquid water evaporates.

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15. What physical changes occur to water as it vaporizes?

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