**Lesson 5**

**Lesson Question:** *1) How does water change state, from solid to liquid to gas? 2) How does this affect the water system?*

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| **A. What activity did we do?** | We modeled how we think water moves through the Rainmaker Model. |
| **B. What evidence did we gather?** | More water moved in the model under the light.  For water to move it had to change\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The water must have changed from a \_\_\_\_\_\_\_\_\_\_in the petri dish to a \_\_\_\_\_\_, and then back into a liquid on the side of the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_then pulled the drops on the side of the bottle into the lip. |
| **C. My answer to the lesson question:** | The light added \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_to water molecules in the petri dish. This caused the molecules to move \_\_\_\_\_\_\_\_\_and get farther\_\_\_\_\_\_\_\_\_\_. When the thermal energy \_\_\_\_\_\_\_\_\_\_\_\_\_ enough the molecules move more freely and fast enough to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and change into a gas. Because gases move freely they \_\_\_\_\_\_\_\_\_ the entire container. The water vapor must \_\_\_\_\_\_\_\_\_\_ thermal energy at the edge of the bottle, because there was drops of \_\_\_\_\_\_\_\_\_\_\_ water on the bottle. This could only happen if the gas molecules \_\_\_\_\_\_\_\_down and get close enough to form a liquid through\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. These liquid drops were then getting \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_down to the lip by gravity. |
| **D. Connecting my ideas to the Unit Challenge:** | The \_\_\_\_\_\_\_\_ adds energy to the system which \_\_\_\_\_\_\_\_\_\_\_\_\_\_ the thermal energy of surface water. This means that the molecules move\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. When the thermal energy increased enough the molecules move more freely and \_\_\_\_\_\_\_\_\_\_ enough to change state. This can cause snow and ice to\_\_\_\_\_\_\_, or surface water to\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. When less energy from the sun is added to the system the water molecules thermal energy\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This means that the molecules move\_\_\_\_\_\_\_\_\_\_\_\_\_\_. When the thermal energy decreased enough the molecules moved slowly enough and close enough to change state. This can cause water vapor to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_or for liquid water to\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. These state changes affect how water moves through the water system. |