|  |  |
| --- | --- |
| **Science 8**  **Changes in States of Matter** | **Name:**  **Date: Block:** |

**What have we learned so far? Turn to the person next to you and share 3 things!**

1. ****

Kinetic Energy (KE) is the energy of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

|  |  |
| --- | --- |
| **Adding Energy** | **Removing Energy** |
| * Particles move \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | * Particles move \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| * The space between the particles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | * The space between the particles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| * Particles cover \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ area. | * Particles cover \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ area. |
| * The material \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in volume. | * The material \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in volume. |
| * Called: | * Called: |

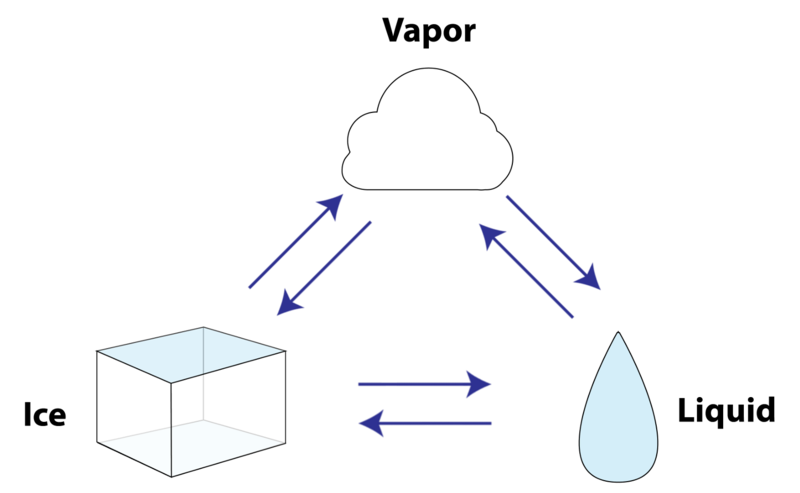


Can you use the concepts of thermal expansion and contraction to explain how a thermometer works?



**Sometimes enough energy is added or removed to completely CHANGE the state!**

|  |  |
| --- | --- |
| For each arrow, indicate:   * The name of change of state using the word bank * Whether heat is gained (+) or lost (-) | Word Bank:   * Condensation * Deposition * Evaporation * Melting * Solidification * Sublimation |

****

**Provide an example for each of the changes of state:**

|  |  |  |
| --- | --- | --- |
| Condensation: | Solidification: | Sublimation: |
| Evaporation: | Melting: | Deposition: |

**Some more definitions…**

Melting Point:

* The melting point of water is:

Boiling Point:

* The boiling point of water is:

☐ **Worksheet**