|  |  |
| --- | --- |
| **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. ****
2.
3.

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**