**![C:\Users\EISD\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\LJWB0OOI\target[1].png]()Structure of Matter Learning Targets**

**(Book pages: 64-72 and 84-93, 97)**

**\*These Learning Targets will replace the traditional “study guide” or “review sheet” that you may be accustomed to getting as you study for a test. You should use these to guide your learning and to prepare for upcoming assessments.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Target** | **Before we start** | **Still don’t know** | **Know some of it** | **Can Teach it** |
| 1. I can list the 4 states of matter
 |  |  |  |  |
| 1. I can explain the three general properties of solids (shape, volume, particle movement)
 |  |  |  |  |
| 1. I can explain the three general properties of liquids (shape, volume, particle movement)
 |  |  |  |  |
| 1. I can explain the three general properties of gases (shape, volume, particle movement)
 |  |  |  |  |
| 1. I can explain the difference between gases and plasmas.
 |  |  |  |  |
| 1. When given a diagram of the different states of matter, I can identify them all, and label the points at which each matter changes states (freezing, melting, condensation, vaporization)
 |  |  |  |  |
| 1. I can differentiate between physical and chemical properties and can label them correctly when given examples.
 |  |  |  |  |
| 1. I can differentiate between physical and chemical changes and can label them correctly when given examples.
 |  |  |  |  |
| 1. I know the four identifiers or evidence that a chemical change has occurred and can give examples of each.
 |  |  |  |  |
| 1. I can accurately create a graph and plot data on a graph.
 |  |  |  |  |

**Key Terms:**

|  |  |  |  |
| --- | --- | --- | --- |
| Vaporization point | Condensation point | Melting point | Freezing point  |
| Mixture | Solution |  | Precipitate |
| Chemical change | Physical change | Physical property | Chemical property |
| Substance | Thermal Energy | Matter | Viscosity  |

**Target 1: List the four states of matter \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Targets 2 – 4:**

 Shape Volume Particles

Shape Volume Particles

 Shape Volume Particles

**Target 5**:

Gas

Plasma

**\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_**

**point**

**\_\_\_\_\_\_\_\_\_\_\_\_**

**point**

 **\_\_\_\_\_\_\_\_\_\_\_\_**

**point**

**\_\_\_\_\_\_\_\_\_\_\_\_**

**point**

**Increasing energy**

**Decreasing energy**

**Target 6**:

Targets 7 – 8:

Properties:

\_\_\_\_\_ Vinegar reacts with baking soda to make carbon dioxide.

\_\_\_\_\_ Diamonds are the hardest substance on the Moh’s Hardness Scale.

\_\_\_\_\_ The boiling point of water is 100°C.

**Changes:**

\_\_\_\_\_Ice on a lake melts.

\_\_\_\_\_Charcoal in a fire turns to ash after several hours.

|  |  |  |
| --- | --- | --- |
| **Identifier / Evidence** | **Example** | **Non-example** |
| **1.**  |  |  |
| **2.**  |  |  |
| **3.**  |  |  |
| **4.**  |  |  |

\_\_\_\_\_A pencil is sharpened in a pencil sharpener, leaving behind shavings.

**Target 9:**