**Matter and the Particle Model of Matter**

Vocab –matter, mass, volume, element, molecule

**Matter**:

 Things that are matter:

 Things that aren’t matter:

**Mass**:

 Example of high mass:

 Example of low mass:

**Volume**:

 Example of large volume:

 Example of small volume:

**Mass** and **volume** are not always related consider the following comparisons:

 Beach ball vs Bowling ball Watermelon vs Grape

Mass:

Volume:

Most **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** in the universe is made of tiny **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** called **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** or **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

An **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** is a particle that is made only from a single **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**, or single type of **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

Examples:

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** are particles made by combining different **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

Examples:

**States** **of** **Matter**

**\_\_\_\_\_\_\_\_\_\_\_\_\_** is the state of matter that has definite **\_\_\_\_\_\_\_\_** and **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

**\_\_\_\_\_\_\_\_\_\_\_\_\_** is the state of matter that has definite **\_\_\_\_\_\_\_\_\_\_\_**, but the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** is determined by its surroundings.

**\_\_\_\_\_\_\_\_\_\_\_\_** is the state of matter that has its **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** and **\_\_\_\_\_\_\_\_\_\_\_\_\_** determined by its surroundings.

**Particle Model of Matter**

 In the Particle Model of Matter:

**Solids look like:**

**Liquids look like:**

**Gasses look like:**

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