|  |  |  |
| --- | --- | --- |
|  **soliqgas** | **Science 8** **State of Matter** **Kinetic Molecular Theory** | **Name:****Date:Block:** |

**Name something that is a…**

|  |  |  |
| --- | --- | --- |
| Solid | Liquid | Gas |
| 1.
2.
 | 1.
2.
3.
 | 1.
2.
 |

Solids, liquids and gases are **STATES OF MATTER.**

**What’s a MATTER?**

* **MATTER** is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* **Volume** is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* How do we measure volume?
	+ - Usually in \_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_.
* **Mass** is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The more \_\_\_\_\_\_\_\_\_\_ in an object, the more \_\_\_\_\_\_\_\_\_\_\_ it has!
* How do we measure mass?
	+ - Usually in \_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Fixed Mass?** | **Fixed Volume?** | **Fixed Shape?** |
| **Solid** |  |  |  |
| **Liquid** |  |  |  |
| **Gas** |  |  |  |

*What is the explanation for this?*

**Particle Model of Matter**

1.

2.

3.

4.

5.

|  |  |  |
| --- | --- | --- |
|  |  |  |

**Kinetic Molecular Theory (KMT)**

* Explanation what happens to matter when the kinetic energy of particles changes
* Kinetic energy = energy due to motion
* Particles are always moving! This means they have kinetic energy.
* Main points of KMT include…
1.
2.
3.

According to KMT…

|  |  |  |
| --- | --- | --- |
| **Solids:**  | **Liquids:** | **Gases:** |
| Picture 2 | Picture 3 | Picture 4 |