| SCIE | NCE 8 | |
|------|----------|--|
| MS. | LANGLOIS | |

| NAME: _. | |
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Matter and the Kinetic Molecular Theory

| HAT IS MATTER? atter: anything that has | and Volume | | |
|--|----------------------------------|--|----------|
| Mass: Now much matter | | | |
| - Usually measured in <u>Gram</u> | | | |
| Volume: how much space | | | |
| - Usually measured in <u>litre</u> | S(L), MILLITES_ | (mL), or <u>Cubic</u> | (cm³) |
| DEMO #1: MARSHMALLOW MADNESS | | | |
| Which parts of the demonstration were material MATTER | tter? Which weren't? Write in ti | ne space below each column. NOT MATTER? | |
| an and last all and | | heat | |
| Stick matches wick gaslair smoke jar ethanol | | licht | |
| gaslair smoke jar | | Sand | |
| For example: - heat | - light | sound | |
| - heat | - light above are examples of | | |
| - heat | | | <u>!</u> |
| - Nea+ All of the | above are examples of | NERGY | <u>!</u> |
| All of the Everything in the universe is either | above are examples of | or energy | ! |
| All of the Everything in the universe is either DEMO #2: ALUMINUM & COPPER (II) CHI | above are examples of | NERGY | <u>!</u> |
| All of the Everything in the universe is either | above are examples of | or energy | <u>!</u> |
| All of the Everything in the universe is either | above are examples of | or energy | <u>!</u> |
| All of the Everything in the universe is either DEMO #2: ALUMINUM & COPPER (II) CHI Make Observations BEFORE COMBINATION: | above are examples of | or energy AFTER COMBINATION: | ! |

Practice:

- **1. What has more mass?** Circle your choice.
 - a. A basketball or a bowling ball
 - b. A helium balloon or a glass marble
 - c. A kitten or an adult cat
- 2. What has more volume? Circle your choice.
 - a. A basketball or a bowling ball
 - b. A helium balloon or a glass marble
 - c. A kitten or an adult cat



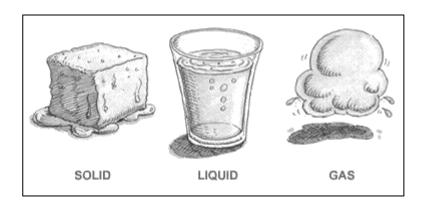


STATES OF MATTER

There are three main states of matter:

SOLID, LIQUID, and GAS

(There is also a fourth state of matter, called PASMA . You'll explore that later on.)



| | Do they have a fixed volume? ("fixed" = set, unchanging) | Do they take the shape of their container? | Example substance |
|---------|---|--|-------------------|
| SOLIDS | FIXED | 70 | brick |
| LIQUIDS | FIXED | YES | milk |
| GASES | NOT FIXED | YES | air |

Homework:

- 1) Start a **key words list** for this unit in google docs or on a sheet of paper.

 Define the terms **matter**, **mass**, and **volume**. Write the definition beside each word.
- 2) Find **2** examples of each state of matter at home. Write them in the space below SOLIDS AT HOME LIQUIDS AT HOME GASES AT HOME