

Name: _____

Date: _____

2.3 Concept 1: The States of Matter

Matter is anything that has _____ and _____.

Examples: _____

Mass is _____.

Volume is _____.

Matter can come in different states. Depending on its state, it has different properties (meaning, it looks and behaves differently). The four states of matter are:

Characteristics	Solid	Liquid	Gas	Plasma
Volume (Does the volume change if you squish it?)				
Shape (Is the shape fixed? Can you 'pour' it?)				
Examples				

What is **plasma**?

- Does not have a defined _____ and _____ (similar to _____)
- Have different _____ than gases
- Examples: _____, visible fork of a lightning bolt, glowing gas of a neon sign.

NOTES TO ACCOMPANY MINI-LAB

2.3: The States of Matter

*Review: matter is anything that has **mass** or **volume**.*

Matter can come in different states. Depending on its state, it has different properties (it looks and behaves differently). The four states of matter are: **solid, liquid, gas, plasma**.

Property	Solid	Liquid	Gas
Shape (Does it have its own shape, or does it take the shape of its container?)	Constant shape (does not change)	Takes shape of container	Takes shape of container
Volume (Does the volume change?)	Constant volume (does not change)	Constant volume (does not change)	Takes the volume of container
Compressible (Can you squish it?)	No	No	Yes
Viscosity (Can you pour it?)	No	Yes	Yes

What is plasma?

- Does not have a defined **shape** and **volume** (similar to **gas**)
- Have different **electrical properties** than gases
- Examples: **the Sun**, visible fork of a lightning bolt, glowing gas of a neon sign.