

Name _____

Date _____ Per. _____

States of Matter Notes

Matter:

- Things that have _____ and take up _____.
- This includes almost everything around us such as air, water, people, and rocks.
- Matter does not cover _____.

Question:

- According to the definition above, air is a type of matter but light is not. Explain why this is so. _____

Molecule:

- A molecule is the _____ of a substance still considered the substance.

Four States of Matter - All matter comes in one of four states:

- _____
- _____
- _____
- _____

1. Solid

- _____
- Boundary/ _____
- Not easily _____
- _____ energy state
- Particles packed together _____ in crystal structure
- Particles _____ back and forth
- Particles barely _____

Solid Examples:

- Tree
- _____
- Ice

2. Liquid

- _____
- _____/Interface
- Not easily _____
- _____ energy state than solid
- Particles not as close as in a _____
- Particles move freely and _____ each other easily
- Particles move _____ than in a solid

Liquid Examples:

- Water
- Coffee
- _____

3. Gas (Vapor)

- _____
- _____ boundary/interface
- _____ compressed
- _____ energy state
- Particles very _____ apart
- Particles moving very freely (_____ into each other)
- Particles move _____ in a gas state

Gas Examples:

- Water _____
- _____
- _____

4. Plasma

- Plasma is a state of matter that we do not observe naturally on earth or on our sister planets because it requires a _____.

Plasma Examples:

- fluorescent light bulb
- _____
- _____