

Nature of Matter

Assignment – Student Edition

I. Vocabulary Match up

Match the term with its correct definition

Term	Definition
1. Matter	a) A substance which has no fixed shape and spreads out to fill its container.
2. States of matter	b) Particles which make up matter.
3. Solid	c) The non-chemical properties of matter.
4. Liquid	d) The amount of space a substance occupies.
5. Gas	e) The temperature at which a substance changes from a liquid into a solid.
6. Atom	f) Solid liquid or gas.
7. Physical property	g) How well a substance allows heat or electricity to move through it.
8. Volume	h) The stuff that objects are made of.
9. Mass	i) Substances which have a fixed shape and volume.
10. Density	j) The amount of matter in a substance.
11. Melting point	k) How hot or cold an object is.
12. Freezing point	l) The mass of a certain volume of matter.
13. Boiling point	m) Substances which have a fixed volume and take the shape of their container.
14. Conductivity	n) Able to be squashed.
15. Temperature	o) The temperature at which a liquid becomes a gas.
16. Compressible	p) The temperature at which a solid becomes a liquid.

II. True or False?

Decide if the following statements are true or false. Correct the false statements to make them true.

- Most substances only exist in one state of matter.
- A change of state is a chemical reaction.
- All matter is made up of atoms.
- Liquids have a fixed volume but no fixed shape.
- Sunlight is not a form of matter because it does not take up space and is not a substance.

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III. Classify the following substances as a solid, liquid or gas.

1.



Steam

2.



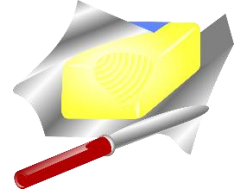
Clouds

3.



Drinking glass

4.



Butter

5.



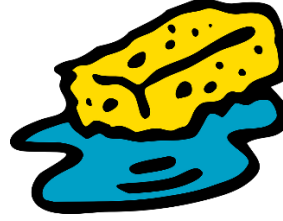
Candle Wax

6.



Honey

7.



Sponge

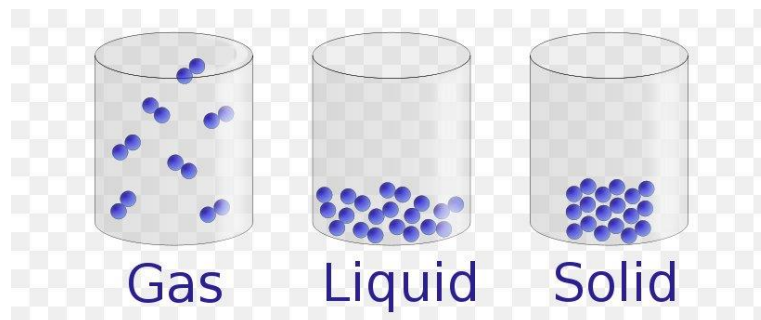
8.



Jello

IV. Interpreting Information

Use the image below to answer the questions



1. Describe how the shape of each state of matter differs.

2. Describe how the volume of each state of matter differs.

Name: _____ Period: _____ Date: _____

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