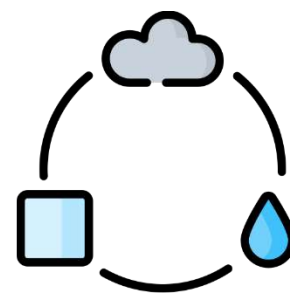


Name _____ Date _____



CHANGES OF STATES OF MATTER QUIZ

1. What is matter?

2. Complete each sentence with the correct word.

- A.** Solid, liquid, and gas increase their _____ when heated.
- B.** A solid has a definite _____.
- C.** The point at which solid starts to melt is called _____.
- D.** A change of state from a liquid to a gas is called _____.
- E.** Gas expands much more than solid and _____.
- F.** During _____, particles of a solid don't pass through the liquid state as they form a gas.
- G.** In which state of matter are the particles most closely held together?

- H.** Most substances can exist in the three states of matter (solid, liquid, and gas) depending on environmental conditions such as _____ and _____.
- I.** The 4th and 5th state of matter are _____ and _____.

3. Match the description to the corresponding state of matter

Description	State of Matter
It has a fixed shape. It doesn't always take the shape of its container	
It has weight and it takes the shape of the container	
It does not have a shape and it moves around freely or it can take the shape of its container	

4. State the name used to describe each of the following changes of state.

a) solid to liquid _____

b) gas to liquid _____

c) liquid to solid _____

d) solid to gas _____

e) liquid to gas _____

5. Fill the table below by giving properties of states of matter

Solid	Liquid	Gases
a.	No fixed shape	b.
Cannot be compressed	c.	Can be compressed
d.	Fixed volume	e.
f.	g.	Particles move freely

6. A substance has a melting point of -210°C and a boiling point of -196°C . What is its state at -190°C ?

7. In what state of matter do electrons tear away from their atomic nucleus and flow around freely (ionized)? (*Hint: This type of matter comprises 99% of the universe*).

8. The behavior of matter in different states is governed by various physical laws. According to you what are the factors that determine the state of matter?

9. Wet clothes are put on a washing line to dry. The water in the clothes turns into water vapor in the air as they dry.

A. Name the change as water turns into water vapor_____

B. Rain forms from water vapor in the air. Name this change_____

C. The clothes dry much faster on a sunny day, explain why in terms of particles.

10. Match the term with its example

- | | |
|-------------------|---|
| ___ Boiling point | a. As a pot of water is heated, bubbles form below the surface and rise |
| ___ Evaporation | b. A Temperature of 100°C |
| ___ Boiling | c. Clouds form from water vapor in the sky |
| ___ Condensation | d. A puddle dries up after a rain shower. |