

SCIENCE TEACHER: MIGUEL ANTONIO GARZÓN ORTIZ

TOPIC: PROPERTIES OF MATTER

NAME: _____

GRADE: _____

1. COMPLETE THE NEXT STATEMENT: *Matter is anything that takes up* _____

a. time b. space c. light d. volume

COMPLETE WITH THE DIFFERENT STATES OF MATTER ACCORDING TO THE DESCRIPTION

(FROM QUESTIONS 2 TO 6)

PLASMA - BOSE EINSTEIN CONDENSATE - LIQUID - GAS - SOLID

2. If an object has its own shape and feels hard it is a _____.

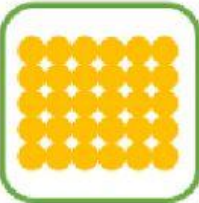
3. Something that takes its container shape is normally a _____.

4. When molecules are crazy trying to fill up the container but travelling in different directions it is a _____.

5. When ions are presented in gas (ionized gas) made by free protons and electrons a light, aurora or to exemplify it better the Earth in and of itself is completely immerse in this state of matter when a solar wind is produced, surrounding the Earth by the ionosphere _____.

6. It is related to a group of cooled atoms, when they reach certain temperature the atoms are hardly moving relative to each other, they have almost no free energy to do so, in fact they behave more like waves than like particles, examples when the water clumps together to form a drop or condensate _____.

7. DRAG: Place the molecules inside the squares according to their behavior and the state of matter:

SOLID	LIQUID	GAS	PLASMA	BOSE EINSTEIN
				

MOLECULES:

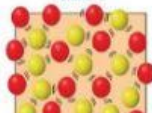
Temperature greater than -273.15°C



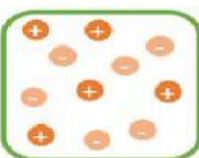
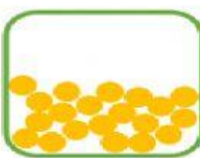
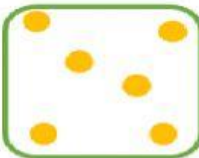
Not absolute zero

→

Temperature -273.15°C



Absolute zero

8. Explain the next case: *A bowl of water left in the sun all day may dry up because:*

- a. the sun cools into ice.
- b. cold weather turns into a solid
- c. the heat evaporates the water into a gas

9. Which one of the following options is TRUE or CORRECT?

- a. The more energy the hotter an object is and its molecules move faster increasing the kinetic energy on it.
- b. Atoms are always jiggling (vibrating).
- c. The gas state of matter is not normally visible.
- d. All of the above.

10. Place the arrow whether the object is heated or cooled to make the 2nd object:



Flowing Lava →	Heated / Cooled	→ Rock
Ice →	Heated / Cooled	→ Water

Clouds →	Heated / Cooled	→ Rain
Water →	Heated / Cooled	→ Steam

This is an adaptation that was designed taken some resources from: <https://co.pinterest.com/pin/44121271339570844/>