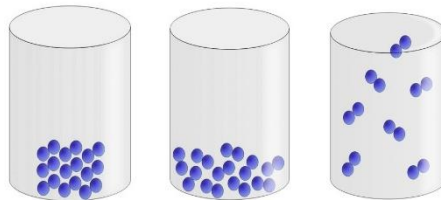


Unit 4: Matter and its characteristics

Use these words to fill in the blanks. Some words will be used more than once.

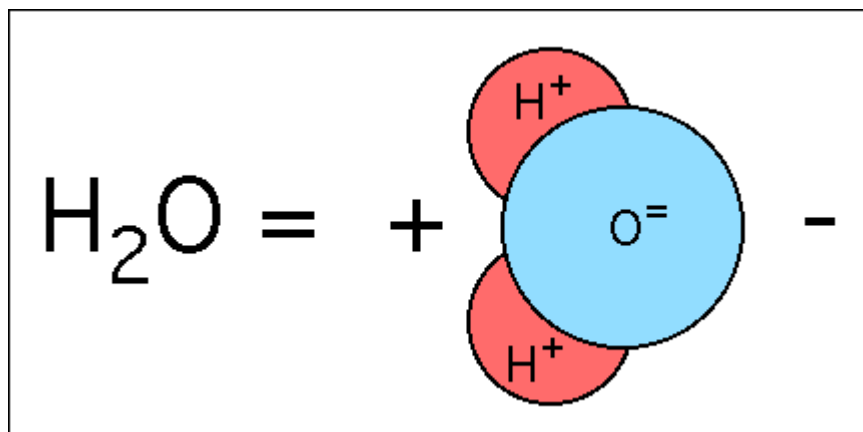
Particles	Matter	Mass	Space
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States of Matter



- i. Everything in this world that has _____ and occupies _____ is matter.
- ii. _____ are always moving about.
- iii. _____ is found in three states or forms.

Now complete these three sentences using the same pair of words each time.



- Ice is made up of _____
- Water is made up of _____
- Water vapour is made up of _____

Concept check:

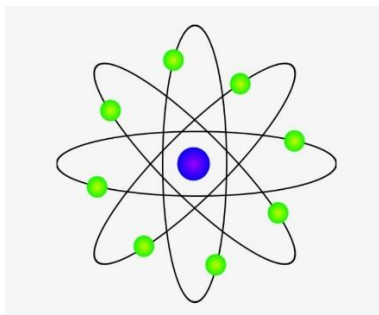
<u>Object</u>	<u>Mass</u>	<u>Volume</u>	<u>State of matter</u>	<u>Conducts heat</u>	<u>Conducts electricity</u>	<u>Floats on water</u>	<u>Sinks in water</u>
<u>Air</u>							
<u>Water</u>							
<u>Plastic bag</u>							

Exercise

Choose the correct Answer.

- Which of the following metals is also needed in our diet?
 a) gold b) silver c) iron d) copper
- Everything on earth is made up of tiny
 a) Particles b) Parts c) Space d) Solids
- Ice , water and water vapour are made of
 a) Water particles b) Solids c) Gas d) Particle
- Which type of matter has a fixed shape and a fix volume?
 a) Solid b) Gas c) Liquid d) Particle
- When iron reacts with air and water , the substance formed on its surface is called
 a) Nickel b) Steel c) Rust d) Dust

Fill in the blanks:



- a) Matter is made up of _____.
- b) The particles in a _____ are packed very closely together.
- c) The _____ in a liquid are packed loosely together .They can flow.
- d) In a gas the _____ between particles are bigger.
- e) Mass is the amount of _____ in an object.

Match the definition in Column A with the correct term in Column B.

B.

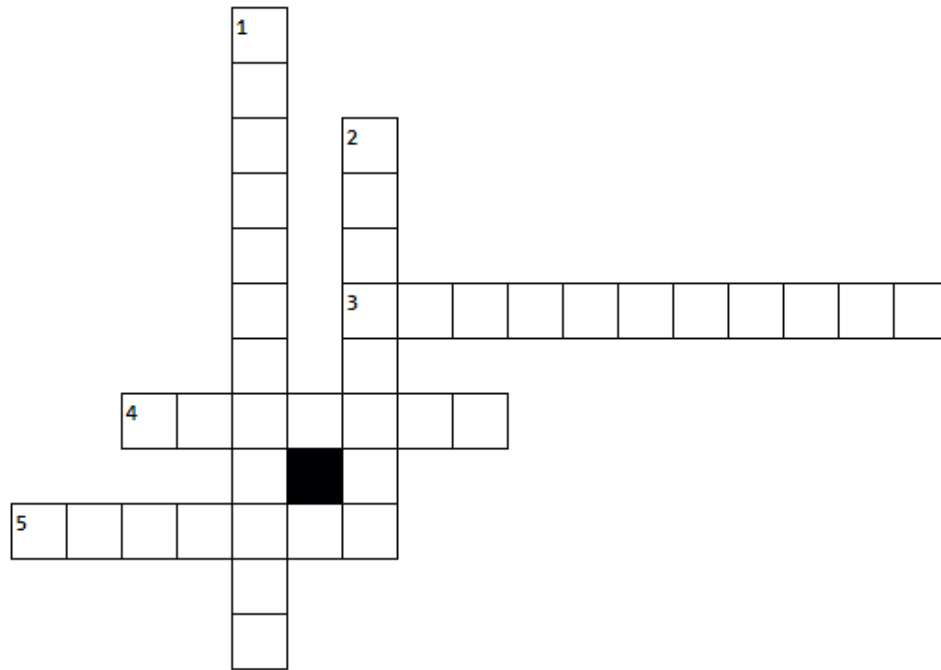
Column A	
Not easy to bend	●
See- through	●
Does not absorb water	●
Attracts iron	●

Column B	
Transparent	●
Waterproof	●
Magnetic	●
Rigid	●

Mark these sentences with true and false:

- i. Particles move.
- ii. Particles in a gas are packed tightly together.
- iii. A liter of water is more when it is in a 5 liter container.
- iv. Particles in orange juice are packed less closely than those in orange ice lolly.
- v. Ice melts into a gas.

Crossword:



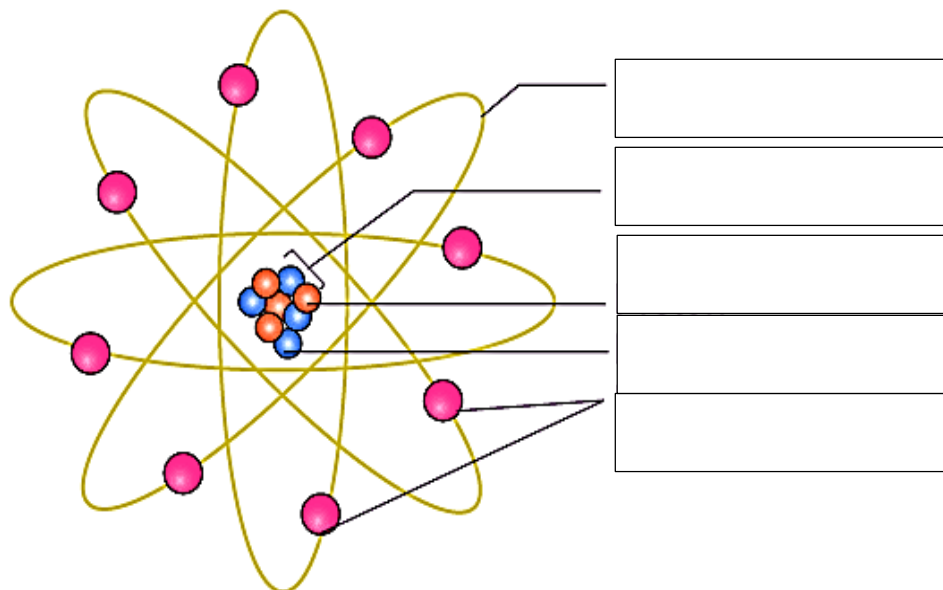
Across

- 3. Liquid into gas.
- 4. Matter changes states on.
- 5. Solid into liquid.

Down

- 1. Gas into liquid.
- 2. Liquid into solid.

Label the diagram:



Rearrange the jumbled words:









Jumbled words	Arranged words
Cusloleme	
Orsonctud	
Uidiql	
Orstalsuin	
Llicatem	

Word search:

SILVER	VINEGAR	MOLECULES	COPPER	MATTER
--------	---------	-----------	--------	--------

M	A	T	T	E	R	T	B	M	V
F	G	J	C	S	H	S	G	X	I
C	O	P	P	E	R	D	U	K	N
W	Q	U	P	B	M	K	L	F	E
S	I	L	V	E	R	L	W	Y	G
J	L	K	W	M	Q	P	G	X	A
K	L	F	O	P	E	W	X	O	R
M	O	L	E	C	U	L	E	S	Y

Drag and drop:

Towel	Tyre	Scissors	Glass
			
Ball	Copper wire	Balloon	Steel chain
			

Conductor

Insulator

Comprehension:

Answer the following questions after reading the paragraph.

Matter is anything that has mass and takes up space. Matter can be described in terms of physical properties and chemical properties. Physical properties and chemical properties of matter can change. Matter is composed of elements and compounds.

In matter, the particles attract each other via intermolecular forces of attraction. The particles are continuously moving. The particles of matter have spaces between them. The matter is categorized into three categories: Solid, Liquid and Gas.

i. What is the composition of matter?

ii. Write the three categories of matter.

iii. Give two characteristics of matter.

Answer the following questions:

1. What is matter?

2. What is difference between a solid and a liquid?

Solid	Liquid

3. Why it is not very good idea to use aerosol sprays?

4. What are some of the properties of aluminium?

5. Do liquids have a fixed shape? Explain your answer.

6. Do the particles in a liquid stay in one place?

7. Why is it not very good idea to dispose of oil down drains or into lakes and rivers?
