Sorting Materials into Groups

Fill in the blanks: -

1.	The smallest particle of a is called a molecule.						
2.	All living things are classified as and						
3.	discovered the atom of an element.						
4.	Molecules of have very less attraction between them.						
5.	,, together make urea.						
6.	There are different elements of which are natural and are						
	made by man.						
7.	and gases are immiscible in water.						
8.	do not change their shape or volume.						
9.	Density of all materials is often compared to						
10	is the hardest material on earth.						

Define the following: -

- 1. Materials
- 2. Molecule
- 3. Volume
- 4. Transparent
- 5. Element
- 6. Mass
- 7. Opaque
- 8. Immiscible liquids
- 9. Compound
- 10. Matter
- 11.Atom
- 12. Flotation
- 13.Insulators of heat
- 14. Classification
- 15. Viscous liquids
- 16. Miscible liquids
- 17. Density
- 18. Conductors of heat

- 19. Translucent
- 20.Intermolecular space
- 21.Cohesion

Tick the correct option: -

- 1. Common salt is a compound made up of
- a. Carbon, sodium
- b. Sodium, chlorine c. Chloride, soda d. Chloride, sodium
- 2. Which of the following can be classified together on the basis of appearance.
 - a. Iron
- b. Copper
- c. Cotton Cloth
- d. Wood

- 3. Solid do not change their shape because
 - a. the molecules are hard
 - b. the molecules are closely packed
 - c. none of the above
 - d. Both a and b
- 4. Silicon and oxygen together make
 - a. Cement
- b. Brick 💰
- Leann.cor c. Sand
- d. Urea

- 5. Gas fills up the space available to it because
 - a. Molecules are independent of each other
 - b. Molecules have vibration
 - c. Molecules are attached to each other
 - d. Both a and b
- 6. Which one of the following is miscible with water
 - a. Kerosene
- b. Diesel
- c. Honey

d. Coconut oil

- 7. Frosted glass is an example of
 - a. Opaque
- b. Transluscent
- c. Miscible object
- d. None of the above
- 8. Which of the following is the property of wood
 - a. Flotation b. Good conductor of electricity c. Magnetic d. Lustrous
- 9. Which of these is not a property of a solid.

- a. Solids have fixed shape and volume.
- b. Solids exert pressure in all directions.
- c. They do not flow
- d. They cannot be compressed.
- 10. Which one of the following is not in washing soda.
 - a. Nitrogen
 - b. Sodium
 - c. Carbon
 - d. Oxygen

Draw neat labelled diagrams to show-

- Arrangement of molecules in solids, liquids and gases
 Liquid changes shape

Fill the boxes: -

1. Name different objects made from the given material

Material	,	Objects	
Wood			
Paper	(,) \		
Glass	•		
Plastic			

2. Name the different materials with which the given object can be made.

Object	Materials
Plate	
Vase	
Chair	
House	

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3. Make pairs of miscible solutions and immiscible solutions

Milk, Lemon juice, water, Coconut Oil, Glycerine, Honey, Diesel, Kerosene, Mustard Oil			
Miscible			
Immiscible			

4. Which ones are not matter-

time, sugar, iron, oxygen, sound, hydrogen, milk, sunlight, oil, microwave, alcohol, energy,				
electricity, minerals, sunlight, steam, rainbow, carbon dioxide, reflections, helium, gravity,				
Memories, tar, information, honey, glycerine, magnetism				
Solid				
Liquid				
Gas	\mathcal{N}_{\cdot}			
Not a				
matter				

Write short answers: -

- 1. Name 5 materials which are used to make useful objects.
- 2. List the properties of solids:
- 3. Name some things which are not matter.
- 4. What is Dalton's Atomic Theory?
- 5. Why it is important to have windows with transparent glasses in shops.
- 6. Look around. Name 2 places where classification is done to keep the things in order.
- 7. Name 3 man-made elements and 3 natural elements.
- 8. What is the difference between molecule and atom?
- 9. Why are solids rigid and hard?
- 10. List the properties of gases.
- 11. Name the three classifications of substances on the basis of the amount of light that can pass through them.
- 12. Why do some objects float in water while others sink?
- 13. Explain texture.
- 14. What is Brownian motion?
- 15. What is the difference between the density and volume?

- 16. Can you think of a material that changes its properties under different conditions? Explain.
- 17. List the properties of gases.
- 18. When we dissolve sugar in water, why the water level does not increase?
- 19. What are magnetic materials?
- 20. Why are electric cables covered with plastic?
- 21. Name two materials which are lustrous but are not classified as same.
- 22. Name the factors which help us to decide which materials to use?
- 23. What are the properties of materials?
- 24. What are ferromagnetic metals?
- 25. How can we make a paper translucent?
- 26. Why is stainless steel attracted to magnet?
- 27. Why homes in very cold regions are made of wood?
- 28. What are the three states of matter? What are the properties of each state?
- 29. Name the different properties of matter.
- 30. What is the difference between the mass and volume?
- 31. Why the three states of matter have different properties?

Circle the odd one out. Explain your answer.

- 1. Sandpaper, Glass sheet, Rocks, Wood
- 2. Hydrogen, Helium, Methane, Carbon dioxide
- 3. Gold, Lead, Bronze, Steel
- 4. Iron, Cobal, Aluminium, Nickel,
- 5. Rock, Iron, Wood, Rubber
- 6. Chlorine gas, Oxygen, Nitrogen, Carbon dioxide
- 7. Alcohol, Vinegar, Glycerine, Coconut Oil
- 8. Leaf, Cork, Coin, Twig
- 9. Bamboo, Air, Wood, Aluminium

Answer in one word-

1.	Liquid wh	nich is n	nade with	the com	bination	of two	gases	

2. Liquid which is immiscible with water-

3. Compound which we eat everyday but is made up of two poisonous substances-

4. Honey and tar are example of this liquid-______

5. Gas which is immiscible with water-_____

6. All liquids are miscible with water- Yes/ No

7. Tar and water-_____

8. Helium and water-_____

Write true or false and correct the incorrect statement: -

- 1. Everything occupies space.
- 2. Satellite signals are matter.
- 3. Liquids change shape and volume.
- 4. Mass and volume are the same.
- 5. Atoms have independent existence whereas molecules do not have independent existence.
- 6. Everything that exists in this universe is a matter.
- 7. Sugar is a compound of carbon, hydrogen and oxygen.
- 8. All molecules attract each other.
- 9. All metals are attracted to magnet.
- 10. The force of attraction between the molecules decreases with increase in distance.