

Q's Ans)

Solid	Liquids	Gases
Definite volume	Definite volume	Indefinite volume
Definite shape	Indefinite shape	Indefinite shape
Definite Mass	Definite Mass	Definite Mass
Cannot flow	Can flow	Can flow
Highly rigid	Less rigid	Not rigid

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Q1) Write down any 5 points of difference between properties of solids, liquids and gases.

Q2) Give one example to show  
a) Particles of matter have space between them

Ans) Take half a glass of water. Add one teaspoon of sugar to it and stir. The sugar disappears but the level of water in the glass does not rise. It means the volume of water did not increase. The sugar particles are adjusted between the water molecules. This shows that there are gaps between water molecules.

b) Particles of matter are very small in size.

Ans) Take 100 ml of water in a beaker A and dissolve some colour. Take 10 ml of this solution and mix it with 90 ml of water in Beaker B. The colour of the solution is not as dark as the solution in beaker A.

3) Give one difference between atoms and molecules.  
 Ans) \*Atoms are single neutral particles.  
 \*Molecules are neutral particles made of two or more atoms

7) Classify the following into solids, liquids and gases.

Solid	Liquid	Gas
common salt	milk	Oxygen
stone	blood	Carbon dioxide
sugar	coconut oil	<del>Kerosene</del>
butter	mercury	L.P.G.
copper	kerosene	
coal		
water		

Take 10ml of the solution from beaker B and mix it with 90ml of water taken beaker C. The colour of the solution becomes still lighter. Keep on diluting the solution like this a number of times and you will find that the colour of the solution becomes fainter and fainter, but it is still coloured. This experiment shows that matter is made up of very small particles.

Exercise - II

1) Name the smallest particle from which matter is made up of.

Ans) The matter is made up of smallest particle called atoms

2) What are molecules?

Ans) A molecule is the smallest unit of matter which exhibits all the properties of the matter of kind of matter and is capable of independent existence.