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1. list all the characteristicks of particles of matter.
2. Give any two examples to prove that particle of matter attract each other.
3. Write 5 points of difference in properties of liquid, solid, gas.

Answer

1- The particles of characteristics of matter are:

- They are very small in size.
- They have spaces between them.
- They are in constant random motion.
- They always attract each other.

2- For example, breaking a chalk is easier but difficult to break a piece of coal. The reason is that the inter molecular forces

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are weaker in chalk that in coal.

We can take an actual chrome alum crystal. It is a solid. The force of attraction between particles of chrome alum is large.

3- solids:

The molecules here are very tightly packed having neglible or very less intermolecular space.
Have fixed shape.
Have fixed volume.
Don't flow.
Effect of pressure is very low; almost incompressible.

liquid:

Molecules are not closely packed; have more intermolecular space.
flow from a higher level to a lower level.

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- Have no fixed shape. Take the shape of the container in which they are kept.
- Have fixed volume.
- Effect of pressure is higher than on a solid, can be compressed slightly.

Gases:

- Molecules are very loosely packed; have large intermolecular spaces.
- Have no fixed shape. Take the shape of the container in which they are filled.
- Have no fixed volume.
- flows in all directions.
- Effect of pressure is very high; can be greatly compressed.

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