

## Chemistry Homework for Class O-I

1. Write down any two characteristic properties of solids, liquids and gases.
2. Define melting point and boiling point.
3. What is kinetic particle theory?
4. Use the idea of particles to explain why;
  - a) Solids have definite shape.
  - b) Liquids fill the bottom of container.
  - c) You can't store gas in an open container.
  - d) You can't squeeze a sealed plastic syringe that's completely full of water.
  - e) A balloon expands as you blow into it.
  - f) Heating a gas in a closed container will increase its pressure.
  - g) Diffusion gives an evidence of particles.
  - h) When two solids are placed on the top of each other, they do not mix.
  - i) The smell of burnt food travels throughout the house?
  - j) Gases are compressible.
  - k) Solids have high densities.
  - l) Gases show random motion.
5. What happens to the particles of solid when temperature is increased?
6. Define duplet and octet rule.
7. How many electrons can be accommodated in third shell?
8. Define atomic number and atomic mass.
9. How diffusion is affected by molecular mass and temperature?
10. Among hydrogen and helium, which one diffuses faster and why?
11. In what ways evaporation differs from boiling.
12. Discuss heating and cooling curve of water.
13. Discuss the processes involved in change of state.

**For assistance**

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