





## Matter

## **Synopsis**

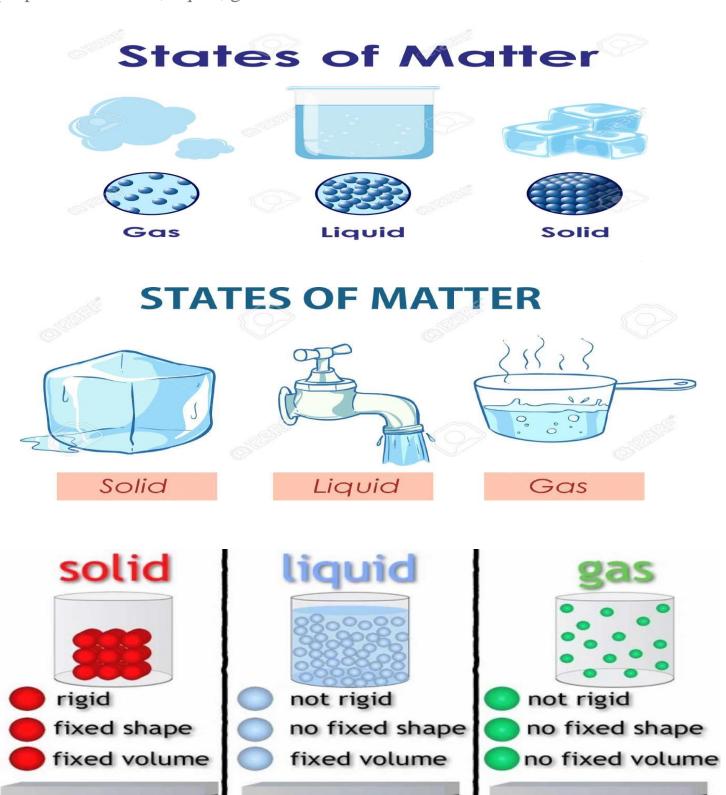
- 1. Horse, mango tree, dog, animals, plants are living, while stone, pen, glass, water, book, table, air are non-living.
- 2. All the above mentioned things living and non-living are matter.
- 3. Energies like light, sound, heat are not matter, as these have no mass.
- 4. **Matter:** "Anything that has mass and occupies space is called matter." Matter (mass) remains same at all places.
- 5. Molecules of matter are in motion.
- 6. The things which are similar in one or more ways are grouped together and this practice is classification.
- 7. There are inter-molecular gaps (spaces) and inter-molecular attraction (force of attraction) between molecules.
- 8. Solids are rigid, have definite volume, retain their shape and are incompressible.
- 9. Liquids can flow, have definite vol., have no definite shape. Have only one free surface.
- 10. Gases Have no definite volume, no definite shape can flow are compressible.
- 11. Inter-molecular force: Solids > Liquids > Gases.
- 12. Inter-molecular volume: Solids < Liquids < Gases.





can be squashed

Follow the picture illustrations for understanding the molecule structure and properties of solids, liquid, gas.



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