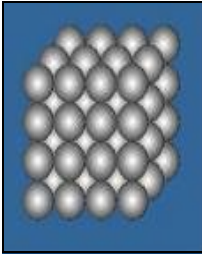


Solids

- Solids have a definite volume and a definite shape.
- The particles in a solid are packed together and stay in a fixed position.
- The particles are not completely motionless, they vibrate.
- In many solids the particles form a regular repeating pattern called crystals.



- Solids that are made up of crystals are called crystalline solids.

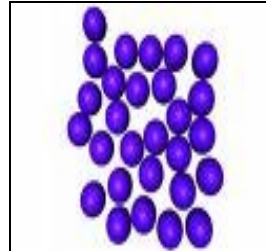


- Solids that don't have a regular repeating pattern are called amorphous solids.

- Amorphous solids do not have a melting point, they just get softer and softer as they are heated.
- Examples of solids are salt, sugar, sand, plastics, rubber, and glass

Liquids

- Liquids do not have a shape of their own, they take the shape of their container.
- Liquids do not easily compress or expand.
- The particles in a liquid are packed almost as close as in a solid.
- The particles move around one another freely.
- Liquids have a definite volume.



- The resistance of a liquid to flow is called the viscosity, the higher the viscosity the slower the liquid flows.

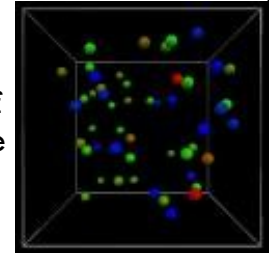
- Liquids are also called fluids



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- Examples of a liquid are water, vinegar, molasses, and lava

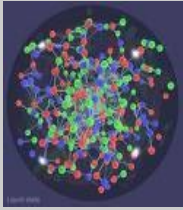
Gases

- Gases can change volume easily.
- Gases do not have a definite volume or shape.
- The volume and shape of the gas is the volume and shape of its container.
- The particles in gas move around at very high speeds.
- The particles in gas move farther apart and closer together to fill the space of its container,
- A mixture of gases can act as one gas, an example of this is air.
- Examples of gases are- air, helium



Plasma

- Plasma is a state of matter where atoms are stripped of their electrons and nuclei are packed close together
- The atoms in plasma move fast and collide with each other.
- All stars are made up of plasma.
- The atoms in stars can join together in a process called nuclear fusion.
- Plasma has conductive assemblies
- Plasma is the most common form of matter.
- Some examples of plasma are stars and lightning.

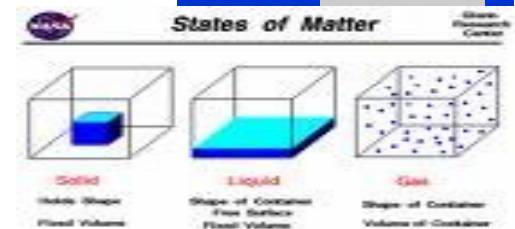


Creative Story

Once upon a time there was an ice cube named Freezy. Freezy loved to play outside in the snow with all of her ice cube friends. She played everyday in the freezing temperatures. One day Freezy noticed that it was a little warmer then it was the day before. Each day after that the temperature continued to go up. A week later Freezy walked outside to play and noticed that the temperature was above 32 degrees Fahrenheit. Sadly they continued to play outside, not realizing that 32 degrees Fahrenheit was their melting point. Through out the day Freezy and her friends continued to melt. At the end of the day Freezy and her friends had melted into puddles on the ground. The next day it was really warm and the sun was out. The puddles slowly evaporated into a gas form as the sun warmed them.

The four types of matter

- Solids
- Liquids
- Gases
- Plasma



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2/11/09

Science-7