- **States of Matter**
- **Definition:** Matter is anything with mass and takes up space.
- **Classification:**
 - Solids: definite shape and volume
 - Liquids: no definite shape, but definite volume
 - Gases: no definite shape or volume
- **Properties of Matter**
- **Density:** Mass divided by volume
 - Solids and liquids have high density
 - Gases have low density
- **Compressibility:**
 - Solids and liquids are slightly compressible
 - Gases are highly compressible
- **Phase Changes**
- **Melting:** Solid to liquid (absorbs heat)
- **Vaporization:** Liquid to gas (absorbs heat)
- **Sublimation:** Solid to gas (skips liquid phase)
- **Freezing:** Liquid to solid (releases heat)
- **Condensation:** Gas to liquid (releases heat)
- **Deposition:** Gas to solid (releases heat)
- **Plasma**
- Fourth state of matter
- Ionized gas
- Conducts electricity
- Present in the sun, neon signs, fire, and lightning