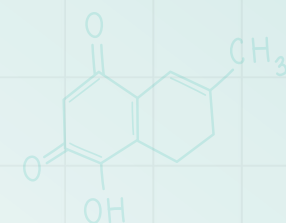


Last Moment Exam Cheat Sheet

Is Matter Around Us Pure

- Pure substance contains only **one kind of particles**.
- **Elements and compounds** are pure substances.
- Mixture contains two or more components **not chemically combined**.
- **Robert Boyle** used the term **element in 1661**.
- **Nitrogen** is the most abundant element in the atmosphere.
- **Oxygen** is the most abundant element in Earth's crust.
- Compound has **fixed composition** and can be separated only by **chemical methods**.
- Mixture has **variable composition** and can be separated by **physical methods**.
- **Homogeneous** mixture has **uniform composition**; **heterogeneous** mixture has **non-uniform composition**.
- Solution is a homogeneous mixture of **solute** and **solvent**.
- Particle size of **true solution** is **less than 1 nm**.
- **Solubility** is the amount of **solute dissolved in 100 g solvent** at a given temperature.





- **Suspension is heterogeneous, unstable** and can be separated by **filtration**.
- Colloid has particle size between **1 nm and 100 nm**.
- **Brownian motion is zig-zag** motion of colloidal particles.
- **Tyndall effect** is scattering of light by colloidal particles.
- Gel, emulsion, aerosol, foam and sol are **types of colloids**.
- **Physical change** forms **no new substance**.
- **Chemical change** forms a **new substance** and is **irreversible**.
- **Rusting of iron, burning of candle** and **electrolysis of water** are **chemical changes**.

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