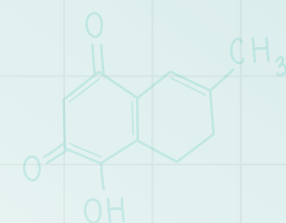


Last Moment Exam Cheat Sheet

Chemical Reaction And Equation

- Chemical reaction forms **new substances** with new properties.
- Reactants take part in the reaction; **products** are formed after reaction.
- Observable signs include change in state, colour, gas evolution, temperature change and **precipitate formation**.
- Chemical equation represents a reaction in **words or symbols**.
- Balanced equation has **equal number of atoms** of each element on both sides.
- Combination reaction forms **one product** from two or more reactants.
- Decomposition reaction splits **one compound** into two or more substances.
- Decomposition may be **thermal, electrolytic or photolytic**.
- Displacement reaction occurs when a **more reactive element** displaces a less reactive element.
- Double displacement reaction involves **exchange of ions** between compounds.
- Precipitation reaction forms an **insoluble solid**.






- Neutralisation reaction forms **salt and water** from acid and base.
- **Exothermic** reactions **release heat**.
- **Endothermic** reactions **absorb heat**.
- **Oxidation** means **addition of oxygen** or **loss of electrons**.
- **Reduction** means **removal of oxygen** or **gain of electrons**.
- Redox reaction has **oxidation and reduction** together.
- Rusting of iron is **corrosion**.
- Oxidation of fats and oils causes **rancidity**.
- Rancidity can be reduced by **antioxidants, airtight packing and nitrogen flushing**.




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