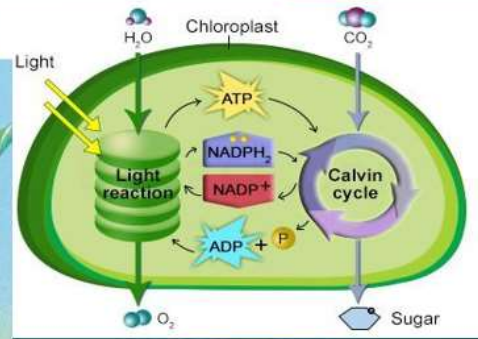
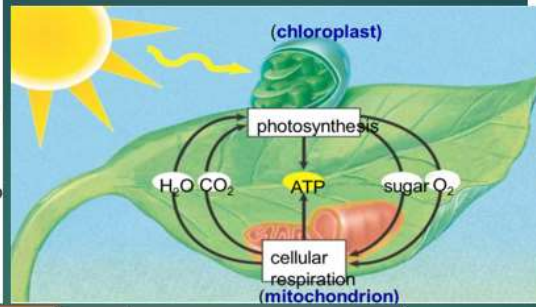
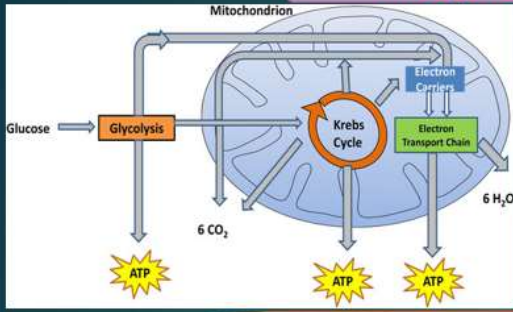


Get Ready To Crack CSIR-NET Mind Map On Respiration Vs Photosynthesis

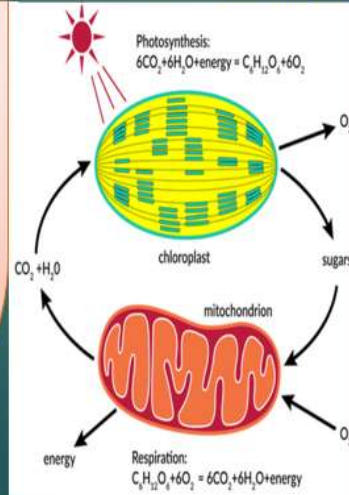


Respiration Vs Photosynthesis



RESPIRATION

- ❖ Reactants > Sugar & Oxygen
- ❖ Product -> CO₂, H₂O & ATP Energy
- ❖ Captures Energy From Sugars & Releases Energy (ATP)
- ❖ Used In All Eukaryotes
- ❖ Occurs In Autotrophs & Heterotrophs
- ❖ Occurs In The Cytoplasm & Mitochondria
- ❖ Steps Of Cellular Respiration Are : Glycolysis, Krebs Cycle & ETC (ELECTRON TRANSPORT CHAIN)
- ❖ Can Occur In The Absence Of Oxygen (anaerobic): alcoholic Fermentation



PHOTOSYNTHESIS

- ❖ Reactants: CO₂, Water (H₂O) & Sunlight Energy
- ❖ Products - Sugar & Oxygen
- ❖ Captures Energy From Sunlight & Releases Energy (Sugar)
- ❖ Used Only In Plant Cells
- ❖ Occurs ONLY In Organisms That Make Their Own Food (Autotrophs)
- ❖ Occurs In Chloroplast
- ❖ Steps Of Photosynthesis Are: Light Reaction & Calvin Cycle (Light Independent Reactions)
- ❖ 3 Things That Affect The Rate Of Photosynthesis : Water, Temperature, & Light Intensity

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