

Photosynthesis **Cellular Respiration** Chlorophyll Heterotroph $6CO_2 + 6H_2O + (energy) \rightarrow C_6H_{12}O_6 + 6O_2$ $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + 36 ATP's (energy)$ $C_6H_{12}O_6$ **Guard Cell** $C_6H_{12}O_6$ 2 - Pyruvate Glucose **Plant Cell** Glycolysis Anaerobic **Light Independent** Respiration Reaction Chloroplast (no O₂)Alcohol "Dark" / Calvin Cycle **Fermentation** (Stroma) **Lactic Acid** CO₂ **Fermentation Electron Transport Chain** O_2 H₂O **Light Dependent** CO₂ Reaction (Thylakoid) **Light Dependent Reaction** H₂O **Light Independent Reaction**