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Objectives

- Describe enzymes and their actions.
- Describe the processes of Photosynthesis & Respiration.























So how does metabolism work?

- Organisms all require energy for …
- Organisms use high energy molecules to accomplish this
 ATP











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Photosynthesis

- Create some sort of stored or potential energy
- Requires pigments that react to sunlight







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Photosynthesis

2. *Light-dependant Phase* Occurs in the Thylakoid Membrane

 $\rm H_2O$ and excited electrons are used to create ATP for the next step

"Byproduct" \rightarrow O₂



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Photosynthesis

- Glucose is stable and can be stored in cells
- Oxygen as a byproduct can be used to release the potential energy stored in glucose

Respiration

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 $H_2O + O_2 + C_6H_{12}O_6 \rightarrow H_2O + CO_2$

And as a result ATP gets charged.









