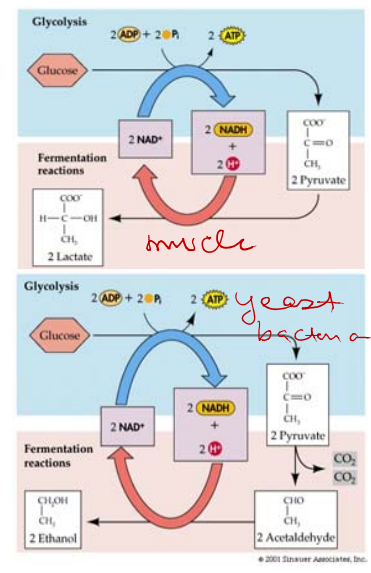


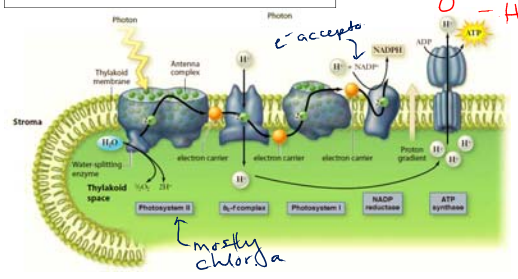
Figure 2



**Anaerobic Pathways**

- Similarities - no O<sub>2</sub>, no ETC - glycolysis
- Function - produce ATP
- Energy output (vs. aerobic respiration) → way less

**The Light-Dependent Reactions**



*(E) storage → NADPH, ATP  
- H<sub>2</sub>O → O<sub>2</sub>*

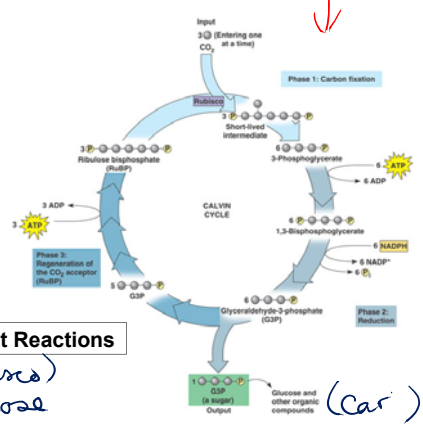
*mostly chloro*

**Major outcomes**

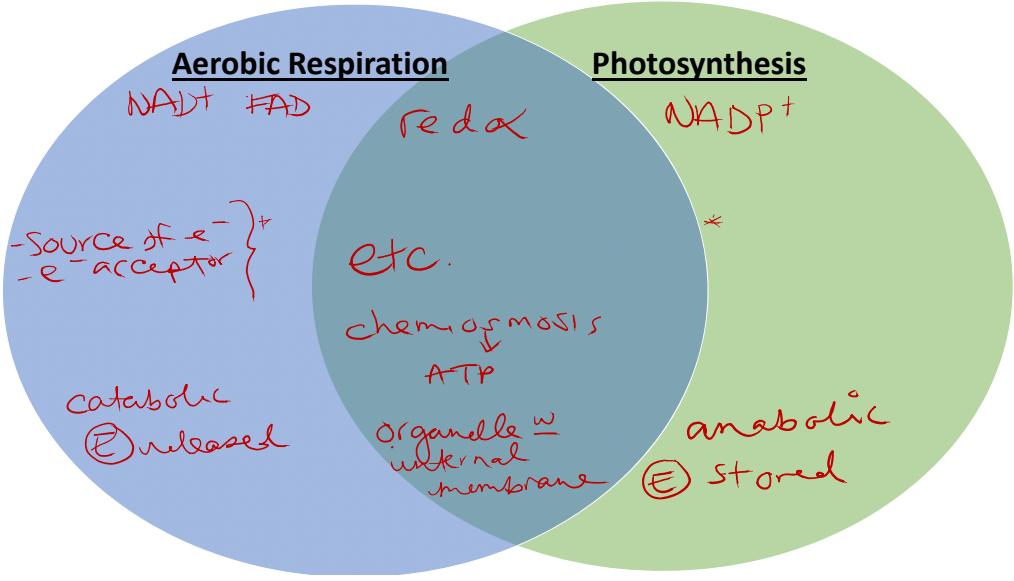
- energy input
- energy output
- other?

**The Light-Independent Reactions**

*- CO<sub>2</sub> fixation (rubisco)  
↳ 6 per glucose  
(car)*



	PHOTOSYNTHESIS	RESPIRATION
<b>Where?</b>	Chloroplasts	Mitochondria
<b>When?</b>	In the presence of light	All the time
<b>Input</b>	Carbon dioxide and water	Glucose and oxygen
<b>Output</b>	Glucose and oxygen	Carbon dioxide and water
<b>Energy sources</b>	Light	Chemical bonds
<b>Energy result</b>	Energy stored	Energy released



Factors affecting photosynthesis

