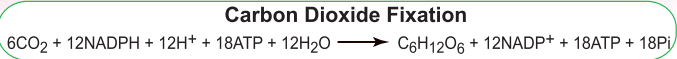
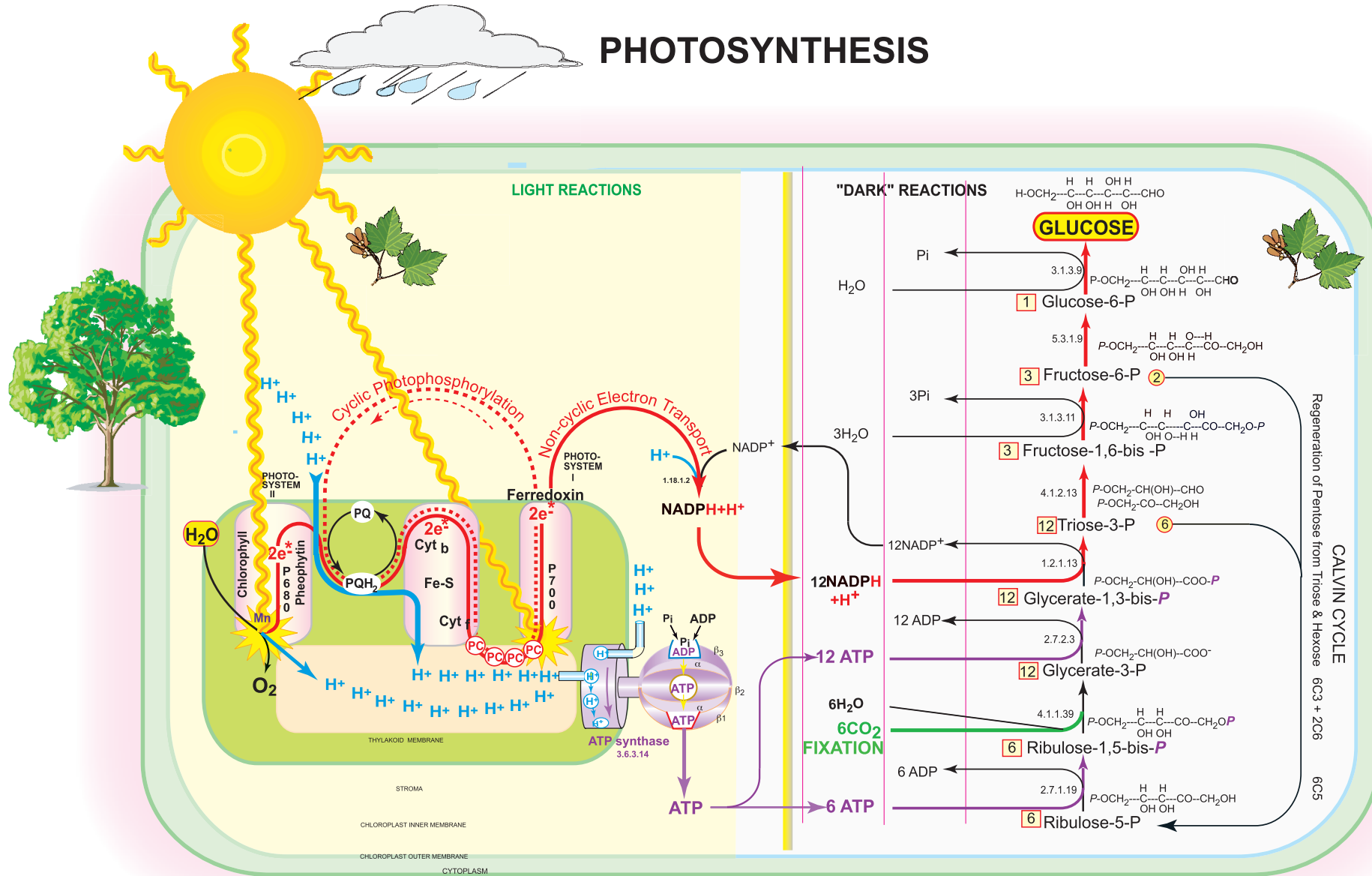


PHOTOSYNTHESIS



- ➔ LIGHT-DRIVEN ELECTRON FLOW (electric current) from H₂O to NADP⁺ and thence to Glucose (and starch)
- ⋯➔ CYCLIC PHOTOPHOSPHORYLATION - light-driven electron flow that drives
- ➔ PROTON TRANSLOCATION from stroma to lumen. This produces a pH gradient that drives ATP synthase
- PQ Plastoquinone QH₂ Plastohydroquinone PC Plastocyanin High-energy electrons e⁻

ENZYMES		
1.2.1.13 Glyceraldehyde-3-P dehydrogenase	2.7.1.19 Phosphoribulokinase	4.1.1.39 Ribulose-bis-P carboxylase
1.18.1.2 Ferredoxin-NADPH ⁺ reductase	2.7.2.3 Phosphoglycerate kinase	4.1.2. - Aldolase
2.2.1.1 Glycolaldehyde transferase (Transketolase)	3.1.3.9 Glucose-6-phosphatase	4.1.2.13 Fructose-bis-P aldolase
2.2.1.2 Dihydroxyacetone transferase (Transaldolase)	3.1.3.11 Fructose-bis-phosphatase	5.3.1.1 Ribulose-P epimerase
	3.1.3.37 Sedoheptulose-bis-phosphatase	5.3.1.1 Triosephosphate isomerase
	3.6.3.14 ATP synthase	5.3.1.6 Ribose-5-P isomerase
		5.3.1.9 Hexose-P isomerase