Name	Period	Date
Photosy	nthesis #2	
2 Major Steps (reactions) of Photosynthe	esis:	
1. Light Dependent Reactions-		
2. Light Independent Reactions-		
The ATP & NADPH ₂ accumulate &		
ATP is a		
NADPH ₂ is a		
Plant pigments are organized as photosy		
Each pigment absorbs a different wavelereaction center which in turns energizes		ansfers its energy to the
Only the chlorophyll that is		
The energized electron is then		
Photosystem I (PS I) -		
Photosystem II (PS II) -		
Two Main Parts of the Light Dependent	Reactions:	
A. Cyclic Photophosphorylation:		
B. Noncyclic Photophosphorylation:		

o	
а	

b.

c.

Photophosphorylation:

Chemiosmosis: Use of H+ gradient (high to low) to create ATP during LDR. Hydrogen pump transports H+ into the thylakoid. H+ also made by photolysis. H+ diffuses through thylakoid membrane via protein channel.

ATP Synthase takes energy