Use your model and the information in your text to answer the questions below.

- 1.
- a. Where in the chloroplast do the light reactions occur?
- b. Where in the chloroplast is the chemiosmotic gradient developed?
- c. Where in the chloroplast does the Calvin cycle occur ?

2. In photosynthesis, the reactions with carbon dioxide to form glucose is carried out in a controlled series of reactions. In general, each step or reaction in the sequence requires the input of energy. The sun is the ultimate source of this energy.

 a. What is/are the overall	 b. What is/are the overall	c. What is/are the overall
function(s) of the	function of the electron	function(s) of the <u>Calvin</u>
photosystems?	transport chain (ETC)?	cycle?
energized HADPH - ATP2	actively transport Ht into thylakoids - Makes ATP	

3. Are the compounds listed here "used",	Light dependent reactions?	Light independent reactions?
"produced", or "not		
present" in:		
Glucose	Not pres.	pare 2.
O ₂	prod.	Not pres.
CO ₂	not pres.	used
₩H+	prod.	used
ATP	proe.	used
ADP + P	inse 2	produced
NADPH	prol.	used
NADP	used	Sug

