WHAT’s MY JOB?- Light Dependent Reactions NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SUN: Provides \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
PHOTOSYSTEM II: Passes e- to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ when excited by light from sun.  
 Receives replacement e- from \_\_\_\_\_\_\_\_\_\_ splitting.

PHOTOSYSTEM I: Receives e- from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
 Passes e- to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ELECTRON TRANSPORT CHAIN (ETC):   
 First ETC protein receives e- from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and passes e- to \_\_\_\_\_\_\_\_\_\_\_\_\_  
   
 Middle ETC proteins receive e- from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
 and pump H+ from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from stroma.   
  
 Last ETC protein: Receives e- from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_passes e- to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

WATER (H2O):   
 Splits and passes 2e- to \_\_\_\_\_\_\_\_\_\_\_ and passes H+ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What happens to O released when water splits?   
 joins with another \_\_\_\_\_ to become \_\_\_\_\_\_ and goes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

STROMA : Passes H+ to thylakoid space through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
 Receives H+ from thylakoid space through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
 Provides H+ for last \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to attach to \_\_\_\_\_\_\_\_\_ to make NADPH.  
 Provides P for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to attach to ADP to make \_\_\_\_\_\_\_\_\_

THYLAKOID SPACE:   
 Receives H+ from stroma through \_\_\_\_\_\_\_\_\_\_ (proton pumps).  
 Receives H+ from \_\_\_\_\_\_\_ splitting.   
 Passes H+ to stroma through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ATP SYNTHASE:   
 Receives H+ from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
 and passes them to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Attaches P from stroma onto \_\_\_\_\_\_\_\_\_\_ to make \_\_\_\_\_\_\_\_\_\_\_\_.

NADP+: Receives H+ from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
 and 2e- from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to become \_\_\_\_\_\_\_\_\_

ADP: P from \_\_\_\_\_\_\_\_\_\_ is attached by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to make \_\_\_\_\_\_\_\_\_  
  
What happens to ATP and NADPH made by light dependent reactions?   
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_