WHAT’s MY JOB?- Light Dependent Reaction

SUN: Provides \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
PHOTOSYSTEM II:   
 Passes \_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ when excited by sunlight.  
 Receives replacement\_\_\_\_\_\_\_\_ from \_\_\_\_\_\_\_\_\_ splitting.

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

ELECTRON TRANSPORT CHAIN (ETC):   
 First ETC protein receives e- from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and passes e- to \_\_\_\_\_\_\_\_\_\_\_\_\_.  
   
 Middle ETC proteins receive e- from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
 and pump \_\_\_\_\_\_\_\_ 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?   
 It joins with another\_\_\_\_\_ to make \_\_\_\_\_\_ 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 \_\_\_\_\_\_ from stroma through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
 Receives \_\_\_\_\_\_ from \_\_\_\_\_\_\_\_ splitting.  
 Passes \_\_\_\_\_\_ to stroma through\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ATP SYNTHASE:   
 Receives \_\_\_\_\_\_ from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
 Passes H+ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
 Attaches \_\_\_\_\_\_\_\_ 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?   
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_