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?
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_