**Chapter 13 – Photosynthesis Study Guide**

Light Reactions

Occurs where? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

PURPOSE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is absorbed by

\_\_\_\_\_\_\_\_\_\_ (energy carrier)

THAT BECOMES

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that supplies energy to

AND

Split \_\_\_\_\_\_\_\_\_\_ Combine \_\_\_\_\_\_\_\_\_\_

INTO \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to form

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
 (that are trapped by) (that is released) (for use in the dark reaction)

\_\_\_\_\_\_\_\_\_\_\_ (acceptor)

FORMING

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for use in the dark reaction

**Dark Reactions**

Occurs where? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

PURPOSE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3 atmospheric \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ molecules

COMBINES with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
 (a 5-C sugar in the chloroplast)

RuBP serves as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ acceptor

To form an unstable \_\_\_\_\_\_\_\_\_\_ sugar that quickly splits to form

2 molecules of \_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a 3-C compound

That combines with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the \_\_\_\_\_\_\_\_\_ reactions

Pathway called \_\_\_\_\_\_\_\_

AND FORMS

2 molecules of \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ a byproduct

Also called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ used in the \_\_\_\_\_\_\_\_ reaction

IS CONVERTED INTO

\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_ made by joining 2 \_\_\_\_\_\_\_\_ and \_\_\_\_\_

THAT IS USED AGAIN TO COMBINE WITH CO2