**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