

Photosynthetic Organisms

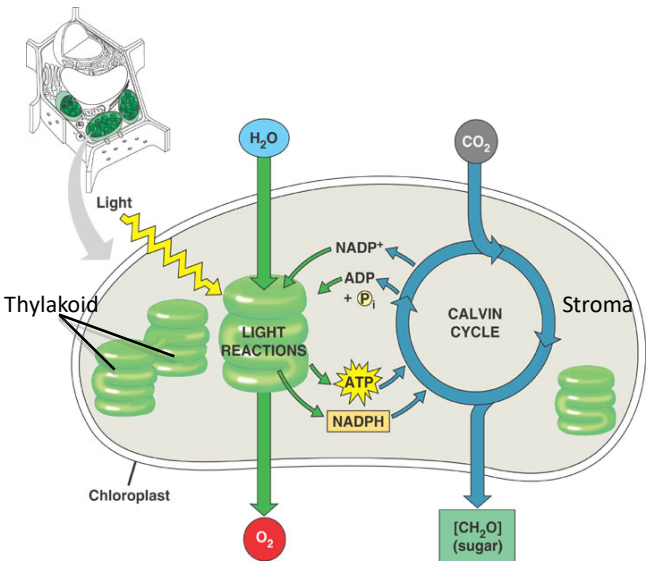
1. Write the chemical equation for photosynthesis:

(reactants)

(products)

2. The diagram below depicts an overview of photosynthesis: the conversion of light energy into the chemical energy of food.

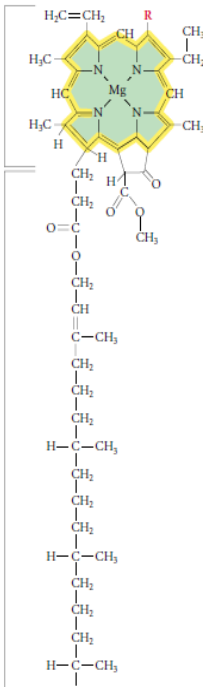
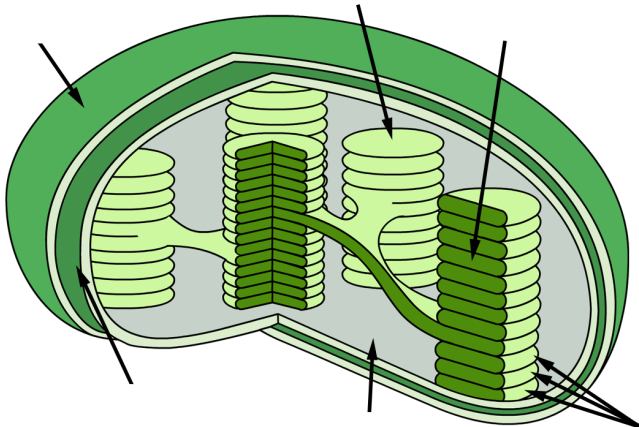
Analyze the diagram and identify the stages and the reactants and products of each stage. Record the answers in the chart.



Stages of Photosynthesis	Light Reactions	Calvin Cycle
Location		
What happens?		
Reactants		
Products		
Role		

Chlorophyll

Chloroplast



Why are Plants Green?

Chlorophyll a & b:

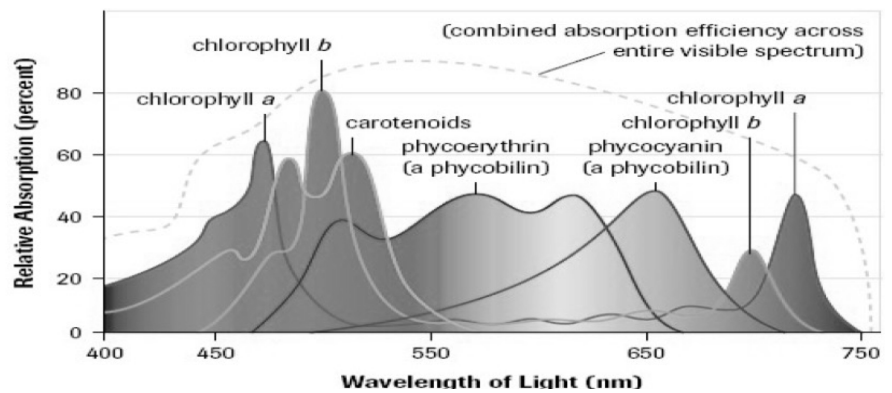
- Chlorophyll a:

- Chlorophyll b:

Carotenoids (β – carotene):

Xanthophylls:

Anthocyanins:



Photosynthetically Active Radiation (PAR)

Stomata:

Leaves

