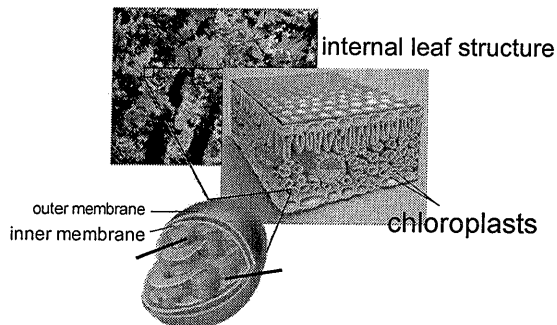


Objectives: Chapter 8-3

- A) Identify how atoms are rearranged in PSN
- B) Identify the two parts of the chloroplast and the colors they absorb and reflect
- C) Compare the two phases of PSN
- D) Summarize the steps of the light-dependent reaction
- E) Summarize the steps of the light independent reaction
- F) Summarize Photosynthesis

Supramolecular Chemistry, UAF, 2005

Obj. B) Identify the two parts of the chloroplast and the colors they absorb and reflect

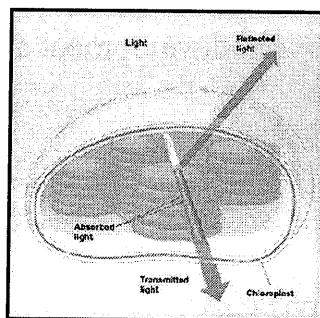


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Obj. B) Identify the two parts of the chloroplast and the colors they absorb and reflect

Photosystems use some wavelengths of light but reflect others...

What two colors are absorbed best?



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Obj. A) Identify how atoms are rearranged in Photosynthesis

Reactants

Products

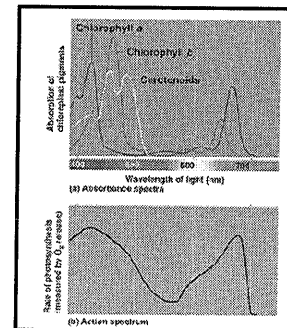
What is the carbon in CO_2 used to make?

Final Equation

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Obj. B) Identify the two parts of the chloroplast and the colors they absorb and reflect

What wavelengths of light do you think plants use the least in photosynthesis?

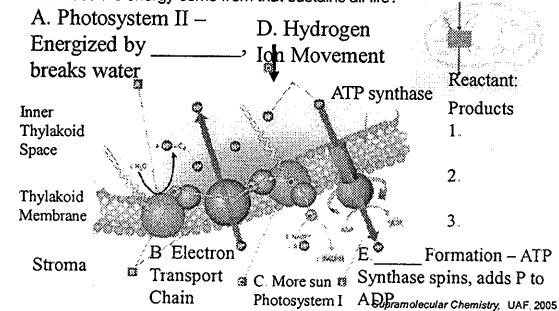


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Photosynthesis

D) Summarize the steps of the light-dependent reaction
Analyze the diagram and identify the following: Where, 2 things it starts with, & 3 things it ends with? Where?

Where does the energy come from that sustains all life?



Obj. C) Compare the two stages of photosynthesis...

Where?

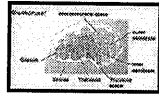
Starts with?

What is produced?

•1.

•2.

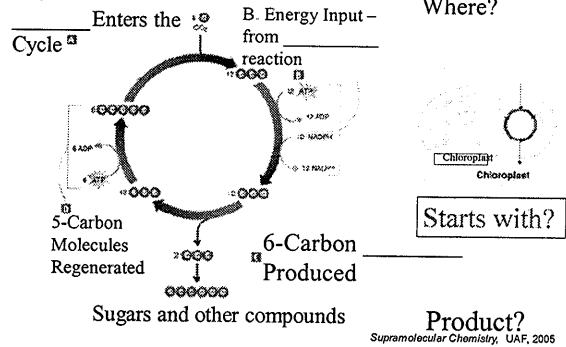
•3.



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Photosynthesis

D) Summarize the steps of the light-independent reaction
Analyze the diagram and identify the following: Where, 3 things it starts with, & 1 thing it ends with?



Obj. B) Compare the two stages of photosynthesis... Stage 2

AKA:

Where?

Starts with?

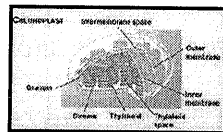
1.

2.

3.

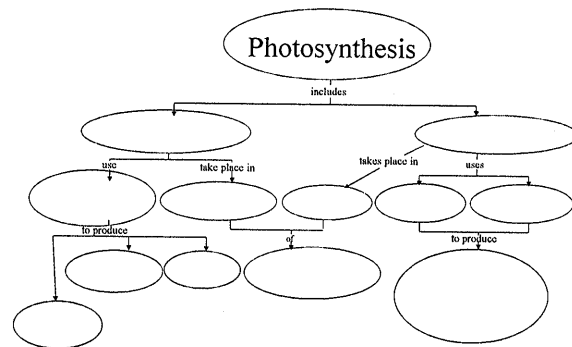
What is produced?

1.



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Obj. E) Summarize Photosynthesis



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Understanding Check

- 1) What is produced from the Calvin Cycle?
- 2) Where does the light dependent reaction and the Calvin cycle occur?
- 3) Identify the three things produced from the light dependent reaction.
- 4) What is produced from the carbon dioxide during photosynthesis?