

PHOTOSYNTHESIS CONCEPT DEVELOPMENT (1F)

1. What is the equation for photosynthesis?
2. Where does photosynthesis take place in the plant? Which organelle?
3. What is the function of pigments in the absorption of energy?
4. Draw a diagram of a chloroplast. Show the double membrane, thylakoid, grana and stroma.

5. In your diagram, identify where the light dependent and light independent reactions occur.
6. Compare the light dependent and light independent reactions in terms of **major purpose**. List the major reactants and products for both sets of reactions.

7. How is the construction of the chloroplast similar to the mitochondria? Different?

8. How are the reactions that take place in each organelle similar? Different?

9. What is the major goal of photosynthesis?

10. Using a concept map approach (with boxes and arrows) , draw a simple overview of photosynthesis that includes only the major “ins” and “outs.