**Photosynthesis Overview**

Go to: <http://sepuplhs.org/high/sgi/teachers/photosynthesis2_sim.html>

**Photosynthesis**

As you move through the site, click on **each** yellow block and answer the questions.

1. How is energy transformed in photosynthesis?
2. Describe the structure of the chloroplast.
3. Chlorophyll is found in which part of the chloroplast?
4. What is the benefit of the thylakoid disks’ stacked structure?

Write the names of the two stages of reactions in boxes 1 and 2.

|  |  |
| --- | --- |
| 1: | 2:  Also known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| In what part of the chloroplast does this take place? | In what part of the chloroplast does this take place? |
| What powers this reaction? | Where does the energy for these reactions come from? |
| What substance comes into this reaction from outside the plant? | What substance comes into this reaction from outside the plant? |
| What substance leaves the plant during this reaction? | What substance leaves the plant during this reaction? |
| What happens to the carrier molecule (NAD+) during this reaction? | What happens to NADPH during this reaction? |
| Some of the energy from this reaction is used to make \_\_\_\_ from \_\_\_\_. | What happens to ATP during this reaction? |
| When can this reaction occur? | When can this reaction occur? |
| What moves back and forth between these two reactions? |  |

1. Write the balanced equation for photosynthesis.