Internet	Wrksht	Photosy	nthesis
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**Bookmark: Virtual Cell** 

Address: http://www.life.uiuc.edu/plantbio/cell

Read the directions at the bottom of the first page on how to use this Virtual Cell site Use the Cut and Zoom features to **Diagram and Label all the structures** of the **Chloroplast**.

## Photosynthesis Overview

http://www.biology.ualberta.ca/facilities/multimedia/uploads/alberta/Photo.html

1. Write the chemical formula for Photosynthesis.

1a. Also, How does the Water and Carbon dioxide enter the plant and How does Oxygen leave the plant?

Photosynthesis Overview + Light Reaction

Work slowly through the animation click on the numbered parts of the animation individually.

http://dendro.cnre.vt.edu/forestbiology/photosynthesis.swf

2. Where in the leaf are the choloplasts and why do you think they are located there?

## Photosynthesis Light Reaction Animation

Compare this animation to the Photosynthesis diagram You picked up today.

http://highered.mcgraw-

hill.com/olcweb/cgi/pluginpop.cgi?it=swf::535::535::/sites/dl/free/0072437316/120072/bi o13.swf::Photosynthetic+Electron+Transport+and+ATP+Synthesis

3. What are the **two energy carrying molecules** that the Light Reaction is making and what is the **one waste molecule**?

## Photosynthesis **Dark Reaction** Animation

http://www.youtube.com/watch?v=o1I33Dgcc M

- 4. What is another name for the Dark Reaction?
- 5. What molecules provide the energy to run the Dark Reaction?
- 6. What is the product of one cycle of the Dark Reaction?
- 7. What happens after two cycles of the Dark Reaction to produce Glucose?
- 8. What molecule supplies the Carbon for the Dark reaction to occur and how many of them are needed to make one Glucose molecule?

Photosynthesis Detailed Animation

http://www.youtube.com/watch?v=hj\_WKgnL6MI