

## Chapter 8 Homework

### Hmwrk 8-1

1. What is energy?
2. What is the difference between autotrophs and heterotrophs? Name one example of each.
3. What is ATP? What allows it to store and release energy?
4. Draw the structure of ATP.
5. Name three uses of ATP.

### Hmwrk 8-2

1. What is photosynthesis?
2. Describe Jan van Helmont's experiment and conclusion. Was his conclusion correct?
3. The work of van Helmont, Priestly, Ingenhousz and others lead to what discovery?
4. Write the overall equation for photosynthesis.
5. What are pigments and chlorophylls?

### Hmwrk 8-3

1. Describe the interior of the chloroplast.
2. Where do the light and dark reactions take place?
3. What is electron transport? Define electron carriers.
4. What are light-dependent reactions and what do they produce?
5. What is the Calvin cycle and what does it produce?
6. Name two factors that affect photosynthesis.