Honors Biology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
NDHS Per: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

**Introduction to Photosynthesis
Reading Assignment: Pages 226 – 228, 230 – 233**

What is ATP? What is its structure?

How is ATP able to store and transfer energy in cells?

How is the biochemical energy of ATP used in the cell? Give three examples.

Define and provide an example:

 Heterotroph:

 Autotroph:

What does “photosynthesis” literally mean?

What do pigments do in photosynthesis?

What color pigments are most important for photosynthesis to occur?

What color light do chloroplasts absorb best?

What color is not absorbed by chloroplasts?

Draw and label the structure of a chloroplast.

What is the overall job of chlorophyll?

When energy is collected in photosynthesis it is transferred to NADP+. What is this molecule and why do cells use it?

What is the overall chemical reaction for photosynthesis? Put a circle around the reactants and a square around the products.

What are the two main steps of photosynthesis? Where do each of them occur?