

Unit 2: Objective 1: Explain the function and purpose of ATP.

To retake the part of the test, you need to complete the following:

- 1) All Schoology quizzes with a passing score.
- 2) Read Pages: 100 – 102. (found on walkersclass.com)
- 3) Know this diagram: Visual Vocabulary diagram on Page 98 and Figure 1.2 on page 99.
- 4) Using complete sentences define the following terms:

-Adenine:

- Ribose:

- Phosphate group:

- Adenosine:

- ATP (Adenosine Triphosphate):

- ADP (Adenosine Diphosphate):

- 5) Using complete sentences complete the following:

-Draw and label all the parts of an ATP molecule.

-Describe the purpose of ATP.

-Describe the differences between an ATP and ADP molecule (both structurally and energy levels).

When you can answer the following questions from memory and not from any other source, let the teacher know you are ready to retest:

- 1) Draw and label all the parts of an ATP molecule.
- 2) Describe the purpose of ATP.
- 3) Describe the differences between an ATP and ADP molecule (both structurally and energy levels).

Unit 2: Objective 2: Describe the process of photosynthesis.

To retake the part of the test, you need to complete the following:

- 1) All Schoology quizzes with a passing score.
- 2) Read pages: 102 – 103 and 106 – 110
 Light Dependent Reaction: 102 – 103 and 106 – 108
 Light Independent Reaction: 103 and 109 - 110
 (found on walkersclass.com)
- 3) Using complete sentences define the following terms:
 - Photosynthesis:
 - Chlorophyll:
 - Chloroplast:
 - Light Independent reactions (Dark):
 - Light Dependent reactions (Light):
 - Calvin Cycle:
 - NADPH: (Nicotinamide adenine dinucleotide phosphate)
 - Electron Transport Chain (ETC):
 - Pigment:
 - Thylakoids:
 - Photolysis:
 - Stroma:
 - ATP Synthase:
 - G3P:

4) Know these diagrams: Figure 2.2 on Page 102 and Figure 3.4 on Page 109

When you can answer the following questions from memory and not from any other source, let the teacher know you are ready to retest:

- 1) Describe the function and purpose of photosynthesis.
- 2) Explain where photosynthesis occurs in the cell (light and dark reactions).
- 3) Diagram the parts of the light dependent and independent reactions of photosynthesis.

Unit 2: Objective 3: Explain what molecules are used and what is produced in the process of photosynthesis.

To retake the part of the test, you need to complete the following:

- 1) All Schoology quizzes with a passing score.
- 2) Read pages: 103 (See teachers website for access to chapter online)
- 3) Know these diagrams: Figure 2.2 on Page 102.
- 4) Using complete sentences answer the following questions:

a) Identify the parts of the equation of photosynthesis

b) Write out the equation for photosynthesis

c) Identify where in the process of photosynthesis each part of the equation is used and produced in the light dependent and independent reactions.

When you can answer the following questions from memory and not from any other source, let the teacher know you are ready to retest:

- 1) Identify the parts of the equation of photosynthesis
- 2) Write out the equation for photosynthesis
- 3) Identify where in the process of photosynthesis each part of the equation is used and produced in the light dependent and independent reactions.

Unit 2: Objective 4: Explain how the molecules which are produced in photosynthesis are used to produce larger molecules such as proteins or DNA.

To retake the part of the test, you need to complete the following:

- 1) All Schoology quizzes with a passing score.
- 2) Read Pages: 101-110. (See teachers website for access to chapter online)
- 3) Using complete sentences, define the following terms:
 - Photosynthesis Equation:

-Oxygen:

-Glucose:

-ATP:

-GP3:

-Carbohydrates

-Proteins

-Lipids

-Nucleic Acids

-Amino Acids

-Nucleotides

-Glycerol

-Fatty Acids

-Monosaccharides

-Disaccharides

-Polysaccharides

When you can answer the following questions from memory and not from any other source, let the teacher know you are ready to retest:

- 1) Describe what the products of photosynthesis are.
- 2) Explain how the products of photosynthesis are used by the body.
- 3) Describe the role of G3P in the production of macromolecules.