**Study Guide: Unit Test**

**Carbohydrates, Photosynthesis, Cellular Respiration**

**Mr. Goodenough**

**Carbohydrates**

1) Understand how dehydration synthesis and hydrolysis build up and break apart carbohydrates. Know which atoms are joined/split in the processes.

2) Be able to recognize the structure of a carbohydrate (glucose in particular).

3) Understand polysaccharides. Know which ones are used for structure and energy (glucose) storage in plants and animals.

4) Know how to find the chemical formula of a polysaccharide.

**Photosynthesis**

1) Know what the end goal of photosynthesis is.

2) Understand the diagram on the website as well as the correct, balanced equation for photosynthesis.

3) Be able to label different structures involved in photosynthesis.

4) Understand where each reaction takes place, whether or not ATP is produced, and the reactants/products of each step.

5) Know which organelles are involved in photosynthesis and where they are found.

6) Know why green light is reflected by green plants.

7) Know what chlorophyll is and what it does.

8) Understand the environmental factors that influence the rate of photosynthesis.

**Cellular Respiration**

1) Know what types of organisms undergo cellular respiration and what organelle it takes place in (or near).

2) Understand the diagram on the website as well as the correct, balanced equation for cellular respiration.

3) Be able to label different structures involved in cellular respiration.

4) Understand where each reaction takes place, whether or not ATP is produced, and the reactants/products of each step.

5) Understand the difference between aerobic and anaerobic respiration.