**Tyler Honors Biology Homework** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 2: Intro to Chem and Organic Molecules**

**Must do 3 Things:**

1. **Famous Biochemist Poster** – **Due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

See project guidelines

1. **Note Summaries –** **DUE TEST DAY: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

At least 6 good sentences summarizing the major concepts addresses in your notes

* 1. Intro to Chemistry and pH
	2. Organic Molecules (Carbs, Lipids, Proteins, Nucleic Acids)
	3. Enzymes

3. **One option** of your choice from the following list: **DUE TEST DAY: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. MUST DO BOTH A AND B FOR THIS ONE

**A.** Choose one of the four organic molecules we have talked about, and learn about an enzyme in the human body that helps digest that type of molecule. In two paragraphs, describe where this enzyme is primarily found, and how it works. Also research what happens if a person does not produce this enzyme naturally. Be sure to include a list of all credible url links you visited to get your information, and use your own words!! Wikipedia is a good site to get an idea of things to search for, but is not considered a credible source, so Wikipedia should NOT be a source on your url list.

**B**. Either build a model of it, draw a labeled diagram or create a 3D image online that would include the enzyme, substrate, and active site.

1. Create a song, rap, or poem about the four organic molecules. You must have at least 4 verses (and a beat if doing a song/rap). You must include the function and monomer for each molecule and at least 2 other characteristics of each in your design. Record a video of your song or a reading of a poem and share the final product with me for extra credit. Provide a written copy of your work.
2. Create a children’s book about the four organic molecules in your body. Make sure you include illustrations, definitions, functions, and examples of each. It should be easy enough to be understood by an elementary age student. NEEDS TO BE VERY COLORFUL! If you wish, you may use the website Storybird to do this.
3. Write a quiz about anything we have learned this week. It must be at least 12 questions long. Make 3 copies and an answer key. Give the quiz to three people and grade them (do not let them use their notes!). To get full points, the quiz must be challenging and well-designed (do not copy straight from the notes). Include at least two types of questions: ex) multiple choice, true/false, short answer, matching.

**Tyler Honors Biology Homework** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 2: Intro to Chem and Organic Molecules**

**Must do 3 Things:**

1. **Famous Biochemist Poster** – **Due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

See project guidelines

1. **Note Summaries –** **DUE TEST DAY: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

At least 6 good sentences summarizing the major concepts addresses in your notes

* 1. Intro to Chemistry and pH
	2. Organic Molecules (Carbs, Lipids, Proteins, Nucleic Acids)
	3. Enzymes

3. **One option** of your choice from the following list: **DUE TEST DAY: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. MUST DO BOTH A AND B FOR THIS ONE

**A.** Choose one of the four organic molecules we have talked about, and learn about an enzyme in the human body that helps digest that type of molecule. In two paragraphs, describe where this enzyme is primarily found, and how it works. Also research what happens if a person does not produce this enzyme naturally. Be sure to include a list of all credible url links you visited to get your information, and use your own words!! Wikipedia is a good site to get an idea of things to search for, but is not considered a credible source, so Wikipedia should NOT be a source on your url list.

**B**. Either build a model of it, draw a labeled diagram or create a 3D image online that would include the enzyme, substrate, and active site.

1. Create a song, rap, or poem about the four organic molecules. You must have at least 4 verses (and a beat if doing a song/rap). You must include the function and monomer for each molecule and at least 2 other characteristics of each in your design. Record a video of your song or a reading of a poem and share the final product with me for extra credit. Provide a written copy of your work.
2. Create a children’s book about the four organic molecules in your body. Make sure you include illustrations, definitions, functions, and examples of each. It should be easy enough to be understood by an elementary age student. NEEDS TO BE VERY COLORFUL! If you wish, you may use the website Storybird to do this.
3. Write a quiz about anything we have learned this week. It must be at least 12 questions long. Make 3 copies and an answer key. Give the quiz to three people and grade them (do not let them use their notes!). To get full points, the quiz must be challenging and well-designed (do not copy straight from the notes). Include at least two types of questions: ex) multiple choice, true/false, short answer, matching.