**Biochemistry Project: Macromolecules in Food Due Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Biology**

For this project, you will pick your favorite entrée (main course) and research the digestion of the macromolecules found within it. You will present this information in the **Google Slideshow** that was shared with you.

**Google Slideshow (50 points)**

A google slide show template has already been shared with your email address. **Please let me know immediately if you did not get the email!** Use the guidelines in the template and the rubric below to complete your project.

**Part 1: Research your Food**

* State the food entrée that you chose for your project and include a picture **1 point**
* List the three macromolecules humans obtain from food and for each macromolecule:
  + Identify the monomer(s) 1 pt each, **3 pts total**
  + Explain the function of the macromolecule 1 pt each, **3 pts total**
* Determine how much of each macromolecule is found in one serving of your food
  + How many grams of each in a serving?1 pt each, **3 pts total**
  + What percent of the daily recommended value is found in a serving? 1 pt each**, 3 pts total**

**Part 2: Research Human Digestion**

* What is physical digestion? Do NOT just copy a definition from a source **3 points**
* What is chemical digestion? Do NOT just copy a definition from a source **3 points**
* What are digestive enzymes? Do NOT just copy a definition from a source **3 points**
* Explain in 2-3 sentences why enzymes are an important part of the digestive process **3 points**
  + Hint: what do enzymes do?
* For each major part of the digestive system (mouth, stomach, small intestine, large intestines): **20 points**
  + Explain what is happening in each step
    - Describe specifically how physical digestion is occurring (if applicable)
    - Describe specifically how chemical digestion is occurring (if applicable)
    - Explain which macromolecule is being absorbed and HOW (if applicable)
* Include color, pictures, diagrams, etc. where appropriate! **5 points**