Directions: Sign onto a laptop and find the following website: [https://www.ck12.org/biology/proteins-in-biology/lesson/Proteins-BIO/](https://www.ck12.org/biology/proteins-in-biology/lesson/Proteins-BIO/%20). As you read answer the following questions that go in order.

***You may have been told proteins are good for you. Do these look good to you?***

1. In many places around the world they eat insects like because they are high in protein. Is this something that you think you could do if you were desperate?
2. What are the important roles that proteins play in the human body?
3. Where do we get the amino acids our cells need to make proteins?

***Proteins***

1. What is a protein?
2. How many different amino acids are there in living organisms?
3. What are the largest known proteins called and where are they found?
4. Draw the amino acid that is seen on the website. What elements are found in this amino acid?

***Protein Structure***

1. What is formed when amino acids bind together?
2. Define the following terms regarding protein structure

Primary Structure –

Secondary Structure –

Tertiary Structure –

Quaternary Structure -

***Functions of Proteins***

1. What do enzymes do for the body?
2. What do antibodies do for the body?
3. What does Hemoglobin do for the body?

***Proteins and Diet***

1. What happens when food is digested?
2. How many amino acids can humans make naturally?
3. How many amino acids need to be consumed in foods and what are these amino acids called?

***Vocabulary- Define the following terms:***

Amino Acid -

Antibody –

Essential Amino Acid –

Hemoglobin –

Polypeptide –

Protein –

Enzyme -