**Macromolecule Study Guide**

1. What is a macromolecule? A large molecule made up of mostly carbon molecules

2. What is the difference between a monomer and a polymer?

* Monomer- One subunit mono= one -mer= subunit
* Polymer- Many subunit poly= many

3. What are the 4 major macromolecules?

1. Carbohydrates
2. Lipids
3. Proteins (polypetides)
4. Nucleic Acids

4. List the monomer for each of the 4 macromolecules.

1. Monosaccharide (glucose) = carbohydrates
2. Glycerol + fatty acid = lipid
3. Amino acid = proteins
4. Nucleotides= nucleic acids

5. What are the functions of carbohydrates? List some examples.

* -Short term energy Examples: cellulose, fructose, starch, glycogen
* -Structural support

6. What suffix do we find on the end most carbohydrates?

* -OSE

7. What are the functions of lipids? List some examples.

* Long-term energy storage Ex. Fats, oils, butter
* Forms cell membrane
* Used to create hormones

8. What are the functions of proteins? List some examples.

* Structural Support Ex. Hemoglobin, antibodies, amylase
* Storage
* Transport
* Defense
* Enzymes

9. What type of bond joins together amino acids to make a protein?

* Peptide bonds

10. What are the two functions of nucleic acids? List the TWO examples.

* Store genetic information Ex. RNA & DNA
* Build proteins