Google Sites Project: BIOLOGICAL MOLECULES AND DIGESTION

Your project for the first semester of the school year will consist of the following:

ESLR's covered by this assignment:
Possess a solid foundation in the core curriculum *writing is clear and correct in presentations that show thought and processing containing core concepts from class*
Are prepared for challenges of higher education *you will use technological tools, computer programs and proper discernment in use of different media in a group project*

- Each group will be composed *of* two people: choose people you know will work.
- Each group will construct a *Google Site* presentation based upon our study *of* the large biological molecules
- You will be held responsible for periodic deadlines on parts of your project
- If you do not participate in its construction you may receive a lower grade or 0 points
- You will need to gather information for this project from research done on the Internet (including on line databases and on line textbooks).
- Use wise judgment in using resources (use professional standards of research)

➢ **Your presentation must include the following parts:**

ON EVERY SLIDE YOU NEED TO PUT THE FOLLOWING:

- ❖ The title of the slide(*see box on back)*
- ❖ Your group members and block number(only on the first slide)
- ❖ Content and graphics explaining the material

Make sure that you research this completely
ALL SLIDES WILL BE GRADED FOR

- ✓ **CONTENT**
- ✓ **APPEARANCE**
- ✓ **CITATIONS**
- ✓ **LINKS**

- Graphics of carbohydrates, lipids and proteins (on the appropriate slides)
- Graphics of the digestive system and the food pyramid.(on the appropriate slides)
- molecules get absorbed. (do this on the digestive system slide)
- Slides must be scientifically correct and to the point.
- All material (pictures and written) **must** be cited properly at the bottom of each slide

For more information: See the next box

Titles for your slides

- ✓ The Human Person and Food
- ✓ The Biomolecules
- ✓ The Carbohydrates
- ✓ The Lipid
- ✓ The Proteins
- ✓ How do we get them into our bodies to use? (The Digestive System)
- ✓ Works Cited

ADDITIONAL INFORMATION

1. **THE HUMAN PERSON AND FOOD (2 Slides)**
   - 1.1. **Explain the connection between living and food**
   - 1.2. **Expain what is in food that is necessary for life**
   - 1.3. **Expain the necessity of obtaining energy and nutrients for the body**

2. **THE BIOMOLECULES (2 slides)**
   - 2.1. **Give a definition**
   - 2.2. **Describe the various kinds of biomolecules (ie Carbs, Lipids, etc.)**
   - 2.3. **How are they put together (polymers): DEHYDRATION SYNTHESIS**

3. **THE CARBOHYDRATES (3 Slides)**
   - 3.1. **Definition**
   - 3.2. **Building Blocks**
   - 3.3. **Monosaccharides, Disaccharides and Polysaccharides (*include pictures and label all of them)***

4. **The Lipids (3 Slides)**
   - 4.1. **Definition**
   - 4.2. **Building Blocks**
   - 4.3. **Triglycerides, Phospholipids, Waxes, Oils, etc.**

5. **The Proteins (2 Slides)**
   - 5.1. **Definition**
   - 5.2. **The Amino Acids**
   - 5.3. **Peptide Bonds and Protein Folding**

6. **HOW DO WE GET THEM INTO OUR BODIES? THE DIGESTIVE SYSTEM**
   Use graphics, explain each organ and their purpose and explicitly state where nutrients are absorbed

Other things to Remember:

- **Be creative as possible, your originality is important!**
- **ALL partners must help to construct this project; I will grade you on this part of your effort. Fellow team members will help to evaluate you on this.**
- **As in the past, you will show me a rough draft of your project before you will be allowed to construct it**
- **The due date will be given in class, a presentation is a possibility**
- **Copying of sections off the Internet without citing the work will be considered cheating and will be given the maximum possible penalties**
- **ALL WORK MUST BE DONE IN YOUR OWN WORDS, USING AGE APPROPRIATE LANGUAGE**
- **The more work that is put into constructing your project will produce a product that will be visually appealing, well constructed, accurate and worthy of a good grade**
- **POINT VALUE: Possible 100 points = 2 Exams**
- **If you have any questions regarding the science part of the project consult with me.**
- **If you have any questions with research or PowerPoint see Ms. Skacan in the Multimedia Lab**
- **Rubrics will be handed out to you that can be used as a check off list for the project.**

REMEMBER: TO USE THE DIRECTIONS ON THIS HANDOUT TO MAKE SURE THAT YOU WILL RECEIVE THE MAXIMUM Possible points