

## Chemistry of Life Collage Project

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Per: \_\_\_\_\_

For the Chemistry of Life Unit you will create a collage to display the properties and characteristics of the four macromolecules of life and water. You will also write a short essay describing how each of the pictures you choose for the collage display the properties of the compounds. The requirements for the project are outlined below. If you have any questions or concerns, see your teacher BEFORE the due date of the project.

DUE DATE: Tuesday, October 30 (A) / Wednesday, October 31 (B)

\*\*\*\*\*NO PROJECTS WILL BE ACCEPTED LATE\*\*\*\*\*

### POSTER SIZE:

The poster should be the equivalent of  $\frac{1}{2}$  of a normal sized poster board. If you do not have a poster board or cannot get one speak to your teacher about it during office hours within the next TWO DAYS.

Your poster should have all of the following components:

- A title
- Section titles for each of the classes of molecules
- Your name

### MOLECULES TO INCLUDE:

Your project should contain a distinct section for each of the following kinds of molecules.

- Carbohydrates
- Lipids
- Proteins
- Nucleic Acids
- Water

### IMAGE REQUIREMENTS:

It is highly suggested that you use magazines to search for images. If you do not have access to old magazines, images may be printed off the internet. Original drawings will be accepted but must be extremely creative and unique. DIAGRAMS should NOT be included for any reason. It would be nice for your images to be in color but it is not required. Your images should be used to display the properties and characteristics of the molecules. You must have at least FOUR images per molecule. Images could include foods that are rich in a specific type of compound (bread for example could be used to represent carbohydrates), or pictures that depict what the compound does (carbohydrates provide energy so show something that requires energy, like a runner). Be creative, but be sure you can explain each image!!!

### ESSAY REQUIREMENTS:

Your essay should be TYPED, written in complete sentences and paragraph form. Bulleted lists will NOT be accepted. In your essay you should clearly describe HOW each image you chose displays a specific property or characteristic of the macromolecules. Essays MUST be printed and submitted with your project. Essays submitted via email will not be accepted.

*I am aware that my student has a project due on October 30 (A)/October 31 (B) and that if the project is not turned in on the due date, it will not be accepted for credit.*

Parent/Guardian Signature: \_\_\_\_\_

\*\*\*\* Parent Signature Due Monday, October 15 (A)/ Tuesday October 16 (B)\*\*\*\*

## **Chemistry of Life Collage Project Grading Rubric**

### **Poster Layout: (15 points)**

The poster is the appropriate size (3)

The poster has a title (2)

Each section of the poster has a heading (5)

The poster is creative and visually appealing (5)

### **Macromolecules Included: (45 points)**

All four macromolecules and water are included (5)

There are at least 4 images per molecule

- Carbohydrates (4)
- Lipids (4)
- Proteins (4)
- Nucleic Acids (4)
- Water (4)

All images are appropriate representations of the characteristics and properties of the molecules

- Carbohydrates (4)
- Lipids (4)
- Proteins (4)
- Nucleic Acids (4)
- Water (4)

### **Essay: (25 points)**

The essay is neatly typed and is in paragraph form (5)

The essay clearly describes each image

- Carbohydrates (4)
- Lipids (4)
- Proteins (4)
- Nucleic Acids (4)
- Water (4)

**Total Points Earned:** \_\_\_\_\_ **/85 summative**