

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

## Macromolecule Virtual Lab

Go to the website: <http://tinyurl.com/neos7r>  
Scroll to the bottom 😊



\*\*Answer each of these questions on NOTEBOOK paper!\*\*

### CARBOHYDRATES

*Scroll down to the bottom and click on Carbohydrates*

1. What do carbohydrates consist of?
2. Plants store carbohydrates as \_\_\_\_\_
3. Insects store carbohydrates as \_\_\_\_\_
4. How do you test for sugars?  
How does it work?

*Click on Add Benedict's Reagent*

*Click on Hot Water Bath*

1. Which solutions changed colors?
2. What does this mean?

*Click on the scroll down bar on the right hand side and go to starches*

1. How do you test for starches?
2. How does it work?

*Click on Add Iodine*

1. Which solutions changed colors?
2. What does this mean?

### PROTEINS

*Click on the tab marked Proteins*

1. What are the chains that make up proteins?
2. What test do we use to test for proteins?  
How does it work?

*Click on Add Biuret Reagent*

1. What solutions changed color?
2. What does it mean?

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

### LIPIDS

*Click on tab marked Lipids*

1. What test is used for lipids?
2. How does it work?
3. What color do the solutions change if lipids are present?

*Click on add Sudan III (FYI: We do not test lipids with Sudan – we use a brown paper bag and see if it makes a grease spot!)*

1. What solutions changed colors?
2. What does this mean?

### EVERYDAY FOODS

*Click on the tab marked Everyday Foods*

*Pick one Everyday Food and test for each of the compounds. Record which compounds were present and how you know.*

### *Analysis Questions*

1. What is the purpose of this lab?
2. How are the reagents useful in determining which macromolecules are present?
3. What is one big thing you learned from performing this lab?