Name:		
Block:	Date:	

Building Macromolecules Activity

Pre-Lab: Color the following pieces accordingly, and then cut them out:

Water= blo Amino Aci		Simple Sugar= green Glycerol= purple	Pentose Sugar= pink Fatty Acid= orange	Base= gray Phosphate=yellow
<u>Procedur</u>	<u>e:</u> Use yo	our notes to help you assem	ble and label the following i	items.
		accharide sugar. ding block (pieces) or monc	omers (units) of carbohydrat	es are called
b.	2. Once yo	released from each bond si	bond) place a water molecuite (called dehydration synthect arrangement, glue the p	nesis).
a.	Place the touch place once you	e remaining carbohydrate n ace a water molecule to poi	omers into a polysaccharide nonomers into a chain and a nt to the bond site (same as ect arrangement, glue the pi ide.	anywhere that 2 pieces s above).
a.	The build 1. 2. Once yo	•	in. ch place a water molecule t ect arrangement, glue the pi	•
a.	Place the place a v	water molecule to point to the unit of the are sure you have a corre	ers into a chain and anywh	ieces down and use a
a. b. c.	The build But to bu Triglycer to one an Assemb Once yo	nother. ble a triglyceride into the col	•	get about those waters).
a.	The build For DNA	A nucleotide. ding block/monomers of nuck, this is made of a Phosphale le the three components as		our notes (using those

c. Once you are sure you have a correct arrangement, glue the pieces down and use a marker to label it as a **DNA nucleotide**.

waters).

- 7.) Add a **title & your name and class period** to your paper.
- 8.) Please clean up after yourself. Make sure no scraps are on the floor around your desk. If so, pick them up! Thanks!

Post Lab Questions: Use your lab & macromolecule notes to answer the following questions.

1. Complete the chart:

Four types of Macromolecules	Main subunit (monomer) of each	

Let's Review: Characteristics, Needs, and Molecules of Living Things

Are you ready for the test? Ask yourself these questions.

Characteristics of Living Things

- 1. Can you list all six characteristics of living things?
- 2. Would you recognize a picture that represents each characteristic?
- 3. Can you identify the stimulus and response in an example?
- 4. Can you define **cell**, **stimulus**, **homeostasis**, **asexual reproduction**, **sexual reproduction**, **DNA**, **heredity**, and **metabolism?**
- 5. Can you tell a friend how you would figure out if something is living or non-living? (Remember back to the Martian and the Car)

Needs of Living Things

- Can you list the four needs of living things?
- 2. Can you explain <u>WHY</u> living things need the things they do? (Review flow chart on back of notes)
- 3. Can you define **producer**, **consumer**, and **decomposer**?
- 4. Can you tell me other facts about the needs (from our notes)?

Molecules of Living Things

- 1. Can you define each of the molecules of living things (protein, enzyme, lipid, fats & oils, phospholipids, nucleic acid, ATP, starch, and carbohydrates)?
- 2. Can you give some facts about each of the major molecules?

If you need more practice something on these lists try:

- Looking at your notes to find the answer and study it. Make a study foldable or flash cards (see Mrs. Hiltner's fortune teller template)
- Asking a friend or classmate (or a teacher).
- Ask to use the card sorts your teacher has had you practice with before.

If you lose a piece, here are extras:

