Honors Biology Lab 3 (Unit 2: Biochemistry)

Name:						Period:		
IDEN	NTIFYING	MACROI	MOLECU	LES	INFO	ODS L	AB-	DATA

1. What is the purpose of using distilled water as one of your test substances?

PART A: PRE-LAB QUESTIONS

Answer the following using COMPLETE sentences	s!
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- 2. What macromolecule will you NOT be testing in today's lab? Why do you think that it is not something we would test in food?
- 3. What indicates the presence of the following (how will you know that a food substance contains each of the following macromolecules):
  - a. Lipids

- c. Proteins
- b. Simple Carbohydrates (only monomers)
- d. Complex Carbohydrates (only polymers)

Hypothesize what the results for each of the following food solutions. Explain WHY you and your lab group think this. Example: We think cooking oil will test positive only for lipids because... (foods <u>may</u> test positive for more than one!

Food Substance	We think it will be positive for	Because
Distilled water		
White sugar solution		
Chicken broth		
Potato Solution		
Whole milk		
Apple juice		
Honey		
Yogurt		

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PART B:

DATA: PUT A "+" FOR POSITIVE RESULTS, PUT A "-" FOR NEGATIVE RESULTS!

	Distilled Water	White Sugar	Oil	Potato Solution	Egg Whites	Apple Juice	Whole Milk	Yogurt	Chicken Broth	Honey
Lipids (Brown Paper)										
Simple Carbs (Benedict's)										
Complex Carbs (lodine)										
Proteins (Biuret)										

- 1. What conclusion should you make if you found a positive test for any macromolecules in a cup containing only distilled water?
- 2. Review your hypothesis table. Are there any substances that you hypothesized incorrectly? How were you incorrect? If all of your hypotheses correct, describe at least one thing that you did learn from this experiment.

3. Hypothesize which tests would be positive and which would be negative if you were to test the following:

	Simple Carbs	Complex Carbs	Lipids	Proteins	Explain WHY!
BaconYummy					
Gummy Bears					
Whole Wheat Bread					
Peanut Butter					

LAB 3 SCORES								
PART A	1	2	3	4				
PART B	1	2	3	4				

Due Tuesday September 20<sup>th</sup>!

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