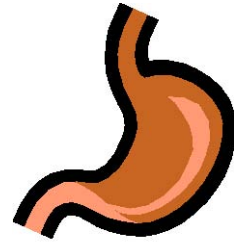


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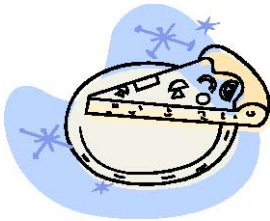
Murder and a Meal

The Case

A murder has occurred right here in our peaceful town of McDonough. As top-notch forensic students at Eagle's Landing Christian Academy you have been asked to assist in the investigation of this most unfortunate incident. Central to identifying the individual who committed this crime is establishing where the victim was the day of the crime so that detectives can question the individuals with whom the victim came into contact. An autopsy was performed on the victim has revealed that the victim ate just prior to the time of death. Upon questioning the victim's friends and family, detectives working the case have learned that the victim enjoyed eating at the following places.



BC Pizza



The victim would never eat thin crust pizza from anywhere else! The victim would typically order a pizza with sausage, pepperoni, and bacon.

What macromolecules would you expect to find in the stomach contents of the victim if the victim's final "pie" was eaten here?

Wing and Things



The victim would hang out here to watch sporting events while feasting on Blazin' wings and celery.

What macromolecules would you expect to find in the stomach contents of the victim if the victim's final meal was eaten here?

The Italian Oven



The victim loved to go here for a night of bread, olive oil, and pasta.

What macromolecules would you expect to find in the stomach contents of the victim if the victim's final meal was eaten here?

The forensic pathologist has removed the contents of the victim's stomach for you to analyze in order to determine where the victim had his last meal.

Procedure

Before analyzing the stomach contents of the deceased, you must determine the procedure to be used to test for each organic macromolecule. Fill in Table 1.

Table 1. Positive and Negative Results for the Presence of Organic Macromolecules

Macromolecule	Chemical Test	Positive Test Result
Lipids		
Proteins		
Carbohydrates— Glucose		
Carbohydrates— Starch		

Now test the stomach contents of the victim. Record your results in table 2.

Table 2

Test for Lipids	Test for Proteins	Test for Glucose	Test for Starch
Observations:	Observations:	Observations:	Observations:
Present?	Present?	Present?	Present?
Not Present?	Not Present?	Not Present?	Not Present?

Where did the victim have his last meal? _____

How did you come to that conclusion? _____
