Crime Solving Insects

Name _____

Part A: Color code the fly species below based on the class notes.



Part B: Calculate the age of a larva using the data charts provided by your teacher.

Example 1: Blow fly	Example 2: House fly	Example 3: Flesh Fly
Temperature has averaged 72° F	Temperature has averaged 65° F	Temperature has averaged 80° F
Larva measures at 32 mm	Larva measures at 32 mm	Larva measures at 32 mm
		Other data: Sunny area, no drugs
$Age = _\ days$	$Age = \ days$	
		$Age = _\ days$

Part C: Explain how each factors affects your estimation of the PMI or interpretation of the insect evidence.

Temperature	
Ecological	
Drugs	
Species Succession	
Wounds	

Part D: Case Studies - For each case:

 1^{st} – Review the police report and weather report.

2nd – Examine & document the collected evidence on the charts on the back of this page.

- Measure the length of the maggots & pupae. Record your data in the chart.
- Consult the Species Key and the tables on your lab page to determine the various fly species that were found on the corpse and their ages.

 3^{rd} – Use the information from the reports and your examination to answer the questions on the back of this page.

	1. Approximately how long has this animal been dead?	Species & Stage	Size (mm)	Age
EAR!	2. Why are maggots of different ages found in the body?			
#1: OH. DEAR!				
#1: O	3. Other than temperature, what other conditions would you want to obtain from the weather station or area to			
CASE	help you to be more confident of your time of death			
C				
	1. Approximately how long has this animal been dead?			
Caper		Species & Stage	Size (mm)	Age
ne C	2. How does air temperature and the fact that the windows were closed relate to the populations of flies			
Case #2: Canine	you observed in and around the corpse?	<u></u>		
s #2:				
Case	3. Do you suspect foul play? Explain.			
논	1. Approximately how long has this animal been dead?			
A		Species & Stage	Size (mm)	Age
. <mark>N DEA</mark> .	2. What effect, if any, does oleandrin and temperature have on your estimation of time of death?	Species & Stage	Size (mm)	Age
NDY'S DEA	2. What effect, if any, does oleandrin and temperature have on your estimation of time of death?	Species & Stage	Size (mm)	Age
S: DANDY'S DEA		Species & Stage	Size (mm)	Age
SE #3: DANDY'S DEA [.]		Species & Stage	Size (mm)	Age
CASE #3: DANDY'S DEATH	have on your estimation of time of death?	Species & Stage	Size (mm)	Age
	have on your estimation of time of death?			
	have on your estimation of time of death?3. Do you suspect foul play? Explain.1. Approximately how long has this animal been dead?	Species & Stage Species & Stage	Size (mm)	Age
	have on your estimation of time of death? 3. Do you suspect foul play? Explain.			
	 have on your estimation of time of death? 3. Do you suspect foul play? Explain. 1. Approximately how long has this animal been dead? 2. What effect, if any, does temperature have on your 			
	 have on your estimation of time of death? 3. Do you suspect foul play? Explain. 1. Approximately how long has this animal been dead? 2. What effect, if any, does temperature have on your estimation of time of death in this case? 			
CASE #4: PORKY'S PERIL CASE #3: DANDY'S DEA	 have on your estimation of time of death? 3. Do you suspect foul play? Explain. 1. Approximately how long has this animal been dead? 2. What effect, if any, does temperature have on your 			