

Name	

1. What do they do?			
Forensicinvestigations.	_ apply their knowledge of	entomology to provide in	formation for criminal
A forensic entomologist's job may	include:		
• Identification of insects at	various stages of their	, such as	s eggs, larva, pupa, and
adults.			
<ul> <li>Collection and preservation</li> </ul>	of insects as	<del>.</del>	
• Determining an estimate for	the postmortem interval or	(the time between de	eath and the discovery of
the body) using factors such	as insect evidence, weather cond	litions, location and condition	n of the body, etc.
•in	court to explain insect-related ev	ridence found at a crime scen	ie.
2. Insects as Evidence			
Forensic entomologists use their knows as about a crime.	owledge of insects and their life of	cycles and	to give them clues
Most insects used in investigations a	re in two major orders:	(flies) and	(beetles).
Species	may also provide clues f	for investigators. Some spe	ecies may to feed on a
corpse, while anoth			
will also find other insect species that	at on the insects	s feeding on the corpse.	
3. Other Factors			
data is also ar	important tool in analyzing inse	ect evidence from a corpse.	Investigators will make
note of the temperature of the	, ground surface, the interf	face area between the body	and the ground, and the
under the body as well as	the temperature inside any	masses. They	will also collect weather
data related to daily	(highs/lows) and	for a period of t	ime before the body was
discovered to the time the insect evid	dence was collected.		
What are some other factors that cou	ald affect a forensic entomologist	s estimate of PMI?	
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## 4. Blow Fly Life Cycle

Blow flies are attracted to de	of the death of an animal. They have a			
life cy	vele that consists of egg, larva, pu	pa, and adult stages.		
Label the life cycle diagram.				
Fill in the blanks below.				
1 <sup>st</sup> – Adult flies lay eggs on th	ne carcass.			
2 <sup>nd</sup> – Eggs hatch into larva (m	aggots) in hours.			
3 <sup>rd</sup> – Larvae continue to g exoskeletons) as they pass stages. 1 <sup>st</sup> Instar - 5 mm long after 2 <sup>nd</sup> Instar - 10 mm long aft 3 <sup>rd</sup> Instar – 14-16 mm long	through the various instar  days days	It takes approximately  14 -16 days from egg to adult depending on the temperatures and humidity levels at the location of the body.		
4 <sup>th</sup> – The larvae (17 mm) burrowing in surrounding soil				
5 <sup>th</sup> – Adult flies emerge frodays.	om pupa cases after			
#1 - What is the crime?#2 - Identify each tool by lett	·	Online Activity  ect it to its function.		
	Forceps	<ul> <li>Used to dig up soil samples</li> </ul>		
A G T	Ventilated jars	<ul> <li>Used to store live species</li> </ul>		
	Thermometer	<ul> <li>Used to collect crawling insects</li> </ul>		
DEF	Hand net	Used to collect flying insects		
	Trowel	<ul> <li>Used to collect &amp; preserve specimens</li> </ul>		
	Specimen Jars	Used to collect weather data		
57(QKI))	Weather Station	• Used to take temperatures (air, soil, masses)		
#3 - Which specimens did yo	ou take back to the lab? Circle the	five that you chose.		
Scorpion	Small Maggots	Spider		
Beetle	Empty Pupa Cases	Fly Eggs		
Large Maggots	Adult Fly	Fly (Crumpled Wings)		
#4 - What was the correct PM		orrect answer?		