

The Author



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Teacher Edition

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Introduction

Television! For over 50 years parents and the public at large have blamed television for the creation of self-indulgent, couch hugging youngsters. They say the youth of today have simultaneously developed shrinking attention spans and expanding ideas of the need for every toy and game seen on TV.

But there is currently another phenomenon attached to television. In the past several years there seems to be an unquenchable thirst for crime investigation shows, both real-life and drama, prime time and syndication, factual and "enhanced" for the television audience and for those all-important ratings!

Science educators have been watching this phenomenon unfold as well. They have recognized that a perfect marriage of science concepts and skills with the "real world application" of science knowledge can be found in the area of forensic science. The students, now intensely interested in the field of using science to solve crimes, as portrayed in the crime scene investigation shows, find that they can carry out simulations of these investigations right in their school laboratories.

The Pedagogy

Scientific inquiry is at the heart of forensic science. In a forensic science course, students, just as the professionals in the field, are expected to develop testable hypotheses and create logical connections between the design of the experiment and the scientific concepts that underlie the situation. They carry out their investigations, collect and analyse data, formulate explanations, revising their hypothesis if necessary, re-work their investigation, and draw conclusions.

Knowledge — Students will have an opportunity to use the science knowledge they have already collected throughout their school experience, such as concepts in biology, geology, weather, chemistry, and physics as a basis for their continued investigations.

Skills — Students will use and refine already acquired science process skills such as observing, inferring, analysing, evaluating, as well as those technical skills specific to forensic investigation in order to solve the crimes.

Application — Students will discover that "real-world" science requires a great deal of creativity. They will be expected to take knowledge from all the fields of science, researching where necessary to fill any gaps, in order to make their own meaning about their tasks and come to conclusions about the investigation.

In addition, students will be using mathematics concepts, such as trigonometry as applied to trajectories, as another invaluable tool to aid in the explanation of particular crime scenes.

Teacher Edition

The premise of this course of study is that students have the knowledge and skills to solve problems. They may not, initially, have the knowledge to determine, for example, the exact location of the perpetrator based on the range of blood spatters. However, they have the knowledge and skills to creatively figure it out. They might have to work to do it, but they have the capacity and, if years of testing these lessons is any indication, they enjoy the challenge.

Forensic courses, both in school and in college, continue to grow in popularity just as forensic science continues to expand as a career. Students are recognising that all crimes are not solved in a one-hour segment, as on their favourite TV shows. But they are also recognising, through courses like this one, that forensic science offers a wide range of opportunities for chemists, biologists, geologists, physicists, artists, photographers, mathematicians, historians, and others who are interested in bringing arts and sciences together with criminal justice.

This series of books consists of a Teacher Edition and a Student Edition.

1. **Teacher Notes** — Detailed "teacher notes" are found at the beginning of each section of the book. Understanding that science teachers have different areas of expertise and that Forensic Science draws from many fields of science, notes have been included to provide background for each area.

These notes provide information about the science concepts and the application of the concepts to forensic investigation.

Teacher notes sections are organised as follows:

- Note sections that are in the Teacher Edition and **NOT** in the Student Edition are colour coded dark red and are identified by an alphabetical label.
- Investigation sections that are in both the Teacher Edition AND the Student Edition are colour coded blue and are identified by a numeric label. They match exactly in both editions and are cross referenced in the contents pages in the Teacher Edition.
- Where there is additional information specifically for the teacher within the investigation sections we have clearly identified these by colour coding them green.

Since the most effective way for students to learn this information is through hands-on investigations, these background notes are not provided in the student edition. When beginning a new section, it is recommended to have students engage in the introductory investigations first. Once those are completed, there may be a period of time in which the teacher provides elaboration on the concepts explored in the investigation. Background notes may be used to guide that discussion.

Since some investigations require the students to have specific knowledge before proceeding with the investigation, notes are provided before the activity in the Student Edition.

2. **Investigations** — Copies of the investigations contained in the Student Edition are duplicated in the Teacher Edition. Included are additional teacher tips on where to find specific materials and supplies, instructions on inexpensive ways to create solutions or provide materials necessary for a particular investigation, safety precautions, and areas which might cause confusion for students.

Contained within each unit are investigations that are designed to either deliver notes for key concepts in a captivating, non-didactic manner or guide the students to develop their own knowledge for key concepts through hands-on, real life applications.

- 3. **Examinations** an exam is provided for each of the units and are colour coded black.
- 4. **Answer keys** Embedded within the investigations and accompanying the unit exams are answer keys and are colour coded light red.

It should be noted that along with knowledge-based questions, for example types of fingerprints, most of the questions students are expected to complete require higher-order thinking skills. For this reason, several acceptable answers may be given in the answer key for a single question. The individual teacher, based on the students' scientific rationale, will be the best judge of the correctness of the statement.

5. **Student Handout Material** — Throughout the book you will see the word 'Handout' on the bottom of certain pages e.g., exam, exam answer sheets... Please feel free to photocopy these pages as handouts to your students. TPS Publishing Ltd. are happy for you to photocopy the Handout pages but please refrain from copying others – Thanks.

Good luck with the course ...

The Authors



Unit II Crime Scene Processing



Crime scene processing involves taking steps to ensure the methodical and lawful collection of information and evidence at a crime scene. Proper processing aids in the reconstruction of a crime and assists in the admissibility of evidence for court proceedings. Presented in this unit are investigations in which you will learn the steps used in processing a crime scene, the proper procedures for packaging evidence such as cartridge casings, fibres and bloody fabric, how to differentiate between and create rough and final sketches of a crime scene and develop an understanding of the chain of custody of evidence.

• Crime scene processing involves taking steps to ensure the methodical and lawful collection of information and evidence at a crime scene.

• Proper processing aids in the reconstruction of a crime and assists in the admissibility of evidence for court proceedings.

The following steps are taken by Investigators when processing a crime scene:

- 1. Provide medical attention to injured persons. *
- 2. Secure the scene. *
- 3. Interview witnesses. *
- 4. Photograph the scene.
- 5. Record notes.
- 6. Sketch the scene.
- 7. Conduct a search.
- 8. Collect and package evidence.

Steps 1, 2 and 3 are performed simultaneously as there is typically more than one investigator present.
 If there is just one investigator present then the priority is to provide medical attention.

Overview of Steps

1. Provide medical attention to injured persons.

2. Secure the scene.

- a. This is the responsibility of the first officers that arrive at the scene.
- b. Post tapes, ropes and barricades around the perimeter of the scene.
- c. Exclude people who are not directly involved in the investigation. This avoids possible tampering of evidence.
- d. Record the names of all people involved.





3. Interview witnesses.

- a. Record the following information in a note pad: (Use the witness question sheet to help)
 - Name of witness
 - Date of occurrence
 - Location
 - Give an account of the events of the crime.
- b. Remember, witnesses can:
 - Provide answers to questions to help investigators reconstruct the crime.
 - Help corroborate information about the crime. (e.g. Confirm or support facts that have come from other sources).
 - Provide information about the crime that evidence alone cannot. (e.g. Details about the activities of the victim or suspects).

4. Photograph the scene.

- a. Start with close up shots of significant aspects of the scene (use a ruler in all photographs for scale) (e.g. a broken window, overturned table, drawers pulled from a desk.)
- b. Next, photograph key pieces of evidence.(e.g. A suspected weapon, bloody fingerprint, stained clothing.)
- c. Lastly, take various photographs of the entire scene from wide angles.

5. Record notes.

- a. Notes should include:
 - 1. A detailed description of the scene. (Notes serve to refresh Investigators' memories months or years after the crime.)
 - 2. Information that cannot be captured by photographs or included in sketches. e.g. unusual odour, time, weather, lighting.
 - 3. Information about how and when pieces of evidence were collected and who collected the evidence.
- b. Crime scene details can also be documented via a narrated video tape or tape recording. Both allow for more detailed notes and must be transcribed into a written document.



6a. Sketch the scene — Rough Sketch.

- 1. Initial sketch of the scene that does not have to be neat and must be as detailed as possible. (Serves to refresh the memories of Investigators months or years after the crime)
- 2. Should include the following:
 - a. "Fixed Points" objects or locations that help provide scale in the sketch and represent points from which the distance of all important details in the scene can be measured. The Investigator can create a "fixed" point by drawing a line from which measurements can be taken (see sketch).
 - b. Labels on items in sketch. (e.g. doors, windows, pieces of evidence)
 - c. Accurate dimensions of objects in, and aspects of, the scene. (e.g. pieces of furniture/ windows)
 - d. Case information including, date, time and location of crime, case number, and name of sketcher.
 - e. Compass direction, North.



6b. Sketch the scene — Final Sketch.

1. The official sketch needs to be as clean in appearance as possible. It is used during court proceedings for jury viewing. It is imperative that the jury can read it easily and have no confusion. If a dimension is needed during court testimony, the investigator will refer to his/her rough sketch.



- Should omit the following:
 - a. Lines and numbers denoting dimensions
 - b. Labels



- Should include the following:
- a. Numbers denoting objects and pieces of evidence
- b. A legend reflecting the identification of the numbered items
- c. Scale
- d. Compass direction, North
- e. A label showing, case number, date, time, location, name of sketcher.
- 4. Can be created via computerised sketching.



Unit II - Crime Scene Processing



Teacher Edition

7. Conduct a search.

- a. Searching a scene allows for the following to be determined:
 - 1. Perpetrator's path of entry and exit.
 - 2. Locations of pieces of evidence.
- b. Examples of search patterns include:
 - 1. Line, Grid and Spiral that are typically used when searching large areas such as fields.
 - Quadrant which is typically used when searching small areas such as a room. (Note: The Spiral search method may also be used when searching a small area.)



8. Collect and package evidence.

Proper collection and packaging helps to protect the evidence and ensure its integrity.

- a. Investigators should wear gloves and use forceps when necessary.
- b. Each item of evidence should be marked with the date and the Investigator's initials and packaged separately.
- c. The type of packaging is dependent on the nature of the evidence. The following are some examples of evidence and the types of packaging they require:

Bullet/ casing – Cardboard box or envelope

Powdered material (e.g. drug/poison) – Plastic bag

Arson evidence (e.g. A piece of carpet soaked with gasoline) – Air tight container such as Mason jar or paint can

Piece of glass – Plastic vial

Item stained with biological fluid such as blood – Paper container (allows the circulation of air thus preventing bacterial growth)

Matches – Metal container

Hair/ Fibre – Paper envelope

- **Document** Paper envelope slightly larger in size
- d. Each piece of packaged evidence should display a label that reflects the following pieces of information:
 - Case number
 - Exhibit number
 - Date of collection
 - Location collected from
 - Name of person who collected evidence
 - Description of evidence (*If the package is opaque*)

9. Chain of Custody

Proper completion of evidence labels plays an important part in the "Chain of Custody" of a piece of evidence.

Chain of Custody is a process that incorporates documentation of the "Who," "When" and "Where" of a piece of evidence from its initial collection to its final disposition (i.e. destruction/storage).

Chain of Custody is a fundamental step that is crucial in maintaining the integrity of evidence and an investigation.



Name	Date	Class
Objective:		0
To determine the proper sequence of ste	eps for evaluating and pro	cessing a crime scene.
Background:		
• Crime scene processing involves collection of information and evidence of the second statement of th		he methodical and lawful
• Proper processing aids in the rec evidence for court proceedings.	onstruction of a crime a	nd assists in the admissibility of
The following represent steps (not in or investigators when processing a crime s		Investigation Prep:For master copies of: "Search Pattern
Collecting evidence		card", "Witness Information sheet" see later in this section.
Sketching the scene		• "Evidence Bags" can be purchased
Searching for evidence		through science catalogues.
Providing medical attention to in	jured persons 🛛 🚔	• Reclosable sandwich bags can be used in place of "Evidence Bags".
Photographing the scene		• Use one large "Evidence Bag" or a
Recording notes		reclosable sandwich bag to hold the items listed under"Materials."
Securing the scene		• Used film canisters can be obtained
Interviewing witnesses		from film developing centres.
Metoriala		• "Crime Scene" tape can be purchased through science catalogues.
Materials:		• "Caution" tape can be used in place
One large plastic bag containing the foll • Film canister	lowing items: Search pattern card	of"Crime Scene" tape and can be purchased at a hardware store.
Graph paper with	Evidence bag	"Bandaging Material" can consist of a
measuring tapeMemo book	Bandaging material "Crime Scene" tape	plaster or a piece of gauze.
"Witness Question" sheet	Chine Scene tape	• Measuring tapes can be purchased through science catalogues or fabric
This investigation should mean do not so		supply stores.
This investigation should precede notes on Crime Scene Processing.	TPS Teacher Tip	• Small memo books should be used.
Teacher Edition		Unit II - Crime Scene Processing

Crime Scene Processing Unit II -

Procedure:

1. Read the following"Crime Scene" scenario:

On Wednesday evening, the next-door neighbour of Mr. Tom Livingston called the police to report the sound of gunshots. When the police arrived at Mr. Livingston's apartment they found the following in the bedroom of his residence: a piece of torn bloody fabric, two 9mm casings, muddy shoe prints and Mr. Livingston with a gunshot wound to his right thigh.

- 2. Empty the contents of the plastic bag onto your work area.
- 3. Each item symbolises a step in crime scene processing. Using the crime scene scenario and the list of steps outlined under the "Background" information, determine which step each item symbolises. Write your answers in Data Table I.

Data Table I			
Item	Step		
Film canister	e.g. Photograph the scene		
Graph paper with measuring tape	Sketching the scene		
Crime Scene tape	Securing the scene		
Memo book	Recording notes		
"Witness Question" sheet	Interviewing witnesses		
"Search Pattern" card	Searching for evidence		
Bandaging material	Providing medical attention to injured persons		
Evidence bag	Collecting Evidence		

- 4. Using the "Background" information, the "Crime Scene" scenario, and your data from Data Table I, discuss with your partner what you think the logical sequence of steps is for processing a crime scene.
- 5. On your work area, place the items from the plastic bag in the order that you feel represents the proper sequence of steps for processing a crime scene.
- 6. When you are finished, ask your teacher to check your work.

7. Record these steps in Data Table II. Data Table II Steps for Processing a Crime Scene 1. Provide medical attention to injured persons * 2. Secure the scene * 3. Interview witnesses * 4. Photograph the scene 5. Record notes 6. Sketch the scene 7. Search the scene for evidence 9. Collect evidence * Note: The order of Steps 1-3 can vary. Steps 1, 2, and 3 are performed simultaneously as there is typically more than one "first on the scene" Investigator that responds to the crime scene.

Follow-Up Questions:	Exercise Answers:
 Often, people think that as long as pictures of a crime scene are taken, they do not have to take notes or make a sketch of the scene. a. Do you agree or disagree with the above statement? b. Explain your answer. 	 1a.Disagree 1b.• Film/photographs can be ruined during processing. • Notes and sketches can include information/items that may not be captured by photographs.
2. List three reasons why you think it is important to cordon off a crime scene with "Crime Scene" tape.	 Answers may include, but are not limited to: To keep unwanted people out. To prevent tampering of evidence. To set specific boundaries for evidence searching/collecting. To prevent theft of evidence. To prevent the addition of evidence.
3. List at least three pieces of information that you would include on the label of a bag containing a piece of evidence that you collected from a crime scene.	 3. Case number. Date. Location where evidence was collected. Name of person collecting evidence. Brief description of evidence.
4. Explain what role you think witnesses play at the scene of a crime.	 4. Answers may include, but are not limited to: Witnesses can provide answers to questions that can aid Investigators in their reconstruction of the crime.
 5. One of the items contained in the plastic bag is a "Search Pattern" card outlining the following patterns, "Spiral,""Quadrant,""Line," and "Grid," that are implemented by Investigators when searching crime scenes for evidence. a. Which two search patterns do you think would be helpful when searching a large area such as an 	 Witnesses can help corroborate information regarding the crime. Witnesses can provide information about the scene or victim(s) that evidence alone cannot. (e.g. The comings and goings of the victim(s)).
 open field? b. Explain your answer. c. Which two search patterns do you think would be helpful when searching a small area such as Mr. Livingston's bedroom? d. Explain your answer. 	 5a. "Line" and "Grid" 5b. A large area would require multiple people 5c. "Quadrant" and "Spiral" 5d. A small area would require fewer people so as to avoid confusion/ repetition

Instructions

Base your answers to questions 1 through 7 on the scenario below. Record your answers on the answer sheet provided.

"The Modelling Agency Murders"

At approximately 5:00 A.M. on Thursday morning, fashion model, Joan Marie Caldwell arrived at "Tereza D's" modelling agency. She went to retrieve some items needed for a photo shoot later that day. Joan figured that by arriving at such an early hour she would be sure to avoid Joyce McKeon, the hyper fashion designer whom she frequently argued with.



Upon her arrival, Joan found the door to the agency's office jammed.

After a third shove, the door opened revealing the bloodied body of Tereza D. Joan quickly exited the office and called the police on her mobile phone.

In addition to Tereza D.'s body, Investigators found the bloodied bodies of Joyce McKeon and male model, Kenneth Dogwood. Tereza D. and Joyce McKeon, found face up, appeared to have been stabbed to death, by a sharp, narrow object while Kenneth Dogwood, found face down, had been shot in the back of the head.

While processing the scene, Investigators noted the following:

- 1. A file cabinet drawer had been pried open (black metal shavings, probably from the object used to open the drawer, clung to the pry marks.)
- 2. Pink feathers, consistent with the feather boa draped around Joyce McKeon's neck, were scattered about the room and the floor outside the office door.
- 3. A partial, bloody shoe print on the floor leading away from the scene.
- 4. A ripped plastic bag containing an off-white powder lying between the bodies of Tereza D. and Kenneth Dogwood.
- 5. Flecks of a bright pink substance, resembling Joyce McKeon's nail polish, on the face of Kenneth Dogwood.
- 6. Small amounts of off-white powder on the floor inside and outside the door of the office
- 7. Clumps of a dark brown substance, below the left hand of Joyce McKeon (The substance resembled soil from the small garden outside the agency.)
- 8. A 9mm cartridge shell next to the right thigh of Kenneth Dogwood.
- 9. A blood soaked white cotton glove in front of the file cabinet.

1. "Locard's Exchange Principle," also known as "transfer-evidence occurrence," states, "any time there is contact between two objects, there will be an exchange of materials between the two objects."

Give four (4) examples of "transfer-evidence occurrence" that took place at the Modelling Agency. ***Be sure to include the following details for each of the three examples:**

- a. **Type** of evidence.
- b. Where it was transferred from.
- c. What it was transferred to.
- a. You are the lead investigator at the scene of the murders. Which of the following search patterns, Line, Quadrant, Grid or Spiral, would you instruct your fellow-investigators to conduct?
 - b. Explain why you would use the type of search pattern you chose.
- 3. Complete the "Evidence Packaging Procedures" chart on the answer sheet for four (4) pieces of evidence found at the scene.

Below is a copy of the evidence label from the evidence envelope containing the bag of off-white powder found in between the bodies of Tereza D. and Kenneth Dogwood.

	Evidence	
-	e #: NY - 07 - 234 ibit #: 5 lasted by: INV. ED VINCE	
Evh	ibit # 5	÷
Col	ected by: INV. ED VINCE	-
	A well that the set of the	5
Dat	scription: BAG / OFF-WHITE Power	1
	TAN TANK INT	5
Se.	aled by TAV BU Pro-	-
Gr	oss Weight: 107.29	-
Da	te Opened:	-
Or	ened by:	-
DA	sealed:	-
G	oss Wt. After Analysis:	÷.

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The "Gross Weight" of a piece of evidence is described as the weight of the evidence plus the weight of the evidence container (e.g. evidence envelope) that it is packaged in.

- 4. a. Explain why you think it is important for an Investigator to record the Gross Weight for a piece of evidence.
 - b. What inference can be made if the Gross Weight for Exhibit #5 is found to be **100.2** grams by the Chemist before she opens it for analysis?
 - c. In terms of "Chain of Custody," why is it important for the investigator packaging the evidence to write her/his name on the "Collected By" section of the evidence label?
 - d. Explain why you think it is important for another investigator to witness the collection/ sealing of a piece of evidence.
- 5. The picture to the right, represents a photograph of the partial shoe print that was found at the scene.

Determine which of the "Suspect" prints , located on your answer sheet, is consistent with the "Crime Scene" print.

- a. Complete the following statement: The "Crime Scene" print is consistent with "Suspect" print.
- b. Circle three characteristics (in both the "Crime Scene" and "Suspect" print) that helped you in your individualization of the prints.
- 6. You are testifying in a court of law. The Prosecutor asks, "Could you please explain the difference between "Class" characteristics and "Individual" characteristics?" Write your explanation on the answer sheet.



- 7. On the answer sheet is a copy of the final sketch of the "Modelling Agency Murders" crime scene that you, the "sketcher" are working on.
 - a. Using the information in the scenario and the legend, complete the sketch for items 9-17.
 - b. Describe the differences between a rough sketch and a final sketch of a crime scene.
 - c. Explain why a final sketch rather than a rough sketch is used during court procedures.
- 8. Based on the evidence and the sketch of the crime scene that you have reviewed for the "Modelling Agency Murders," what is your opinion of the events? (e.g. Why were the three people killed? Who is responsible for the deaths? What type of weapon(s) was/were used to kill the people?)

Extra Credit:

If an Epidemiologist is defined as..."a scientist who deals with the incidence, distribution and control of disease in a population," how would you define a Forensic Epidemiologist?

Name			Da	ate	(Class
1.						
-	Туре		W	here from		What to
-						
2a.					l l	
2a.						
2b.						
3.		E	1D	- 1 D.	1	
	E 11			ackaging Proc		
	Evidence	Package	lype		Purpo	ose of Package
-						
1						
4a.						

Unit II - Crime Scene Processing

Teacher Edition

Name Date Class 4b. _____ 4c. 4d. 5. Suspect Print "A" Crime Scene Print Suspect Print "B" Suspect Print "C" 5a. The "Crime Scene" print is consistent with "Suspect" print _____ (letter) 5b. (Circle the characteristics in the prints above)

Section 6 — Exam: History and Crime Scene Investigation: Answer Sheet Name_____Date____Class_____ 6. 7a. Windo 8 Hallway Scale 1 foot Case No. NY723 Legend 1. Tereza D 16. 9mm cartridge shell Date. 23Jul05 2. Kenneth Dogwood 17. Glove Time. 0600hr 3. Joyce McKeon 18, 19, 20. Blood Location. Tereza D's Modelling 4. Chair Agency 5. Desk 6. Chair 7. File cabinet 8. Loveseat 9. Black metal shavings 10. Pink feathers 11. Bloody shoe print 12. Plastic bag with off-white powder 13. Flecks of bright pink substance 14. Off-white powder 15. Dark brown substance

66

Teacher Edition

Na	ame	_Date	_Class
7b.			
7c.			
8.			
Extra	Credit		

Teacher Edition

Unit II - Crime Scene Processing

Name_____Date____Class_____

Туре	Where from	What to
	Object used to pry open drawer	File cabinet drawer
Pink feathers	Joyce McKeon's boa	Floor of office and floor outside office
Flecks of bright pink substance	Joyce McKeon's nails	Kenneth Dogwood's face
Off-white powder	Ripped plastic bag of white powder	Floor outside and inside office
	Next to head of Joyce McKeon	Garden outside agency

2a. Spiral

2b. Room/small area

3.

Evidence Packaging Procedures				
Evidence	Package Type	Purpose of Package		
Black metal shavings	Any type of paper package envelope, box or glass vial	Avoid the effects of static electricity caused by a plastic package.		
Feathers	Any type of paper package envelope, box or glass vial	Avoid the effects of static electricity caused by a plastic package.		
Bright pink flecks	Any type of paper package envelope, box or glass vial	Avoid the effects of static electricity caused by a plastic package.		
Off-white powder	Any type of paper package envelope, box or glass vial	Avoid the effects of static electricity caused by a plastic package.		
Dried dark brown substance	Any type of paper package envelope, box or glass vial	Avoid the effects of static electricity caused by a plastic package.		
Blood soaked glove	Paper bag or envelope	Allows air to circulate. Prevents bacterial growth.		
9mm shell casing	Wrapped in cotton and placed in cardboard box	Prevent scratching/denting		

Name

Date_____

Class_

4a. Answers may include but are not limited to:

- To ensure that the evidence has not been tampered with (nothing has been added/ nothing has been removed).
- The gross weight of the evidence obtained by the Chemist before opening it can be compared to the gross weight of the evidence obtained by the Investigator to ensure that they are the same.
- 4b. Answers may include but are not limited to:
 - That some of the evidence has been removed/stolen.
 - That an error was made when the Investigator weighed the evidence.
 - That an error was made when the Chemist weighed the evidence.
- 4c. Answers may include but are not limited to:
 - Because it is important to have a record/knowledge of where the evidence is, and who had the evidence at all times. In order to maintain the chain of custody.
 - A break in the chain of custody (the Investigator's name missing from the "collected by" section of the evidence label) could result in the inadmissibility of evidence into court.
 - If the case goes to court, the proper Investigator will be called to testify
- 4d. Answers may include but are not limited to:
 - To ensure that nothing is added/removed
 - To be able to testify (if needed) that the evidence was handled properly and not tampered with





N	Jame	Date	Class	
7b.	A Rough sketch is more detailed, and is used for recall.	not as neat, incl	udes written dimensions and la	bels
	A Final sketch is less detailed, nea not include dimensions and is use		and a legend in place of labels	s, does
7c.	A Final sketch is used in court bec understood than a rough sketch.	ause it is neat a	nd will be more easily read /	
8.	Answers will vary.			
Ext	ra Credit			
	A Forensic Epidemiologist is a scie control of a disease in a populatio			า and