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**GENERAL INTEGRATED SCIENCE– UNIT 2**

**TASK 11 – Practical Investigation**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ WEIGHTING: 12 %**

**PRAC DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ MARK: \_\_\_\_\_\_ / 60 = \_\_\_\_\_\_ %**

|  |  |  |
| --- | --- | --- |
| **Sections** | **Marks Allocation** | **Your Total** |
| **A – Collection of Evidence** | 18 |  |
| **B – Analysis of evidence** | 25 |  |
| **C – Report** | 17 |  |
| **TOTAL** | **60** |  |

**Introduction**

As a crime scene investigator, you have been employed by the Police Department to collect evidence from the crime scene, analyse the samples and prepare your expert witness report for the impending court trial.

You have been called to assist in a murder investigation. It appears as though Frank was murdered outside of Student Services. Mr. Ronan was the first on the scene and has subsequently become the number one suspect. However, several other teachers and office staff have been identified as possible suspects because they were seen near Student Services around the time of the crime. Evidence will have to be collected from these people so the true identity of the killer can be found.

The Police have been watching Frank for some time now on suspicion the he was dealing illicit substances; however they’re unsure of which drug. They believe he was working with another person, but as yet have been unable to figure out whom. Now that Frank is dead, they suspect that the other person became greedy and decided to get rid of the middle man to make more profit for themselves.

Whoever the killer was, they were very sloppy and have left a trail of evidence behind. Your criminal investigation team has been called in to collect and analyse the evidence at the crime scene.

**It is your task to:**

* Collect evidence from the crime scene (group activity – 1 hour).
* Analyse and compare the evidence to the material collected from the suspects (individual activity – 2 hours).
* Write a report to summarise your findings (individual activity – 1 hour).

**Part A – Collection of Evidence**

As a criminal investigator, there are several things that you must do before entering a crime scene. To help you with this, lab coats, rubber gloves and paper have been provided.

You need to carry out the following tasks:

1. Create a sketch of the crime scene; remember to include all the details that are required on such a sketch. ***(5 marks)***
2. On entering the crime scene, make **notes** **on your sketch** of any information you think may be relevant to the investigation. ***(2 marks)***
3. Collect evidence from the scene and preserve it for later analysis. Each group will be allocated evidence to collect: ***(4 marks)***

* **Evidence #1** – Footprints in the sand next to drag marks
* **Evidence #2** – Individual sample of suspicious white powder near the door.
* **Evidence #4** – Letter on the ground beside the powder
* **Evidence #5** – Possible murder weapon with fingerprints
* **Evidence #6** – Traces of hair and/or fibres on the scene.
* **Evidence #7**– Pool of blood
* **Evidence #8** – Blood soaked rag near the door

*(You will be marked on the collection of your piece of evidence by the appropriate method, storage of the sample and labelling of the evidence.)*

The more evidence you can successfully collect, the closer you are to your report and a conviction! Once all the evidence has been collected, it needs to be **bagged** and **labelled** appropriately.

**4)** Your task now is to write an explanation of what you think could have occurred, citing the evidence that is leading to your initial suspicions. ***(4 marks)***

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**5)** There are a number of suspects that were seen near Student Services around the time of the murder. You must collect samples from these suspects and preserve it for later analysis. Comparing their samples to the evidence found at the crime scene may be able to link one of the suspects well enough for a conviction. Each group will be allocated a suspect to collect evidence from: ***(3 marks)***

* **Suspect #1** – Mrs. Nikki W
* **Suspect #2** – Mr. Matt Ronan
* **Suspect #3** – Mr. Shaun Atkins
* **Suspect #4** – Mrs. Emma A
* **Suspect #5** – Mrs. Katie S
* **Suspect #6** - Mrs. Sandra D

You will need to collect fingerprints, a hair sample, their blood type, a photo of their shoe, the length of their shoe and a handwriting sample. You will be given a forensics kit to collect these samples.

*(You will be marked on the successful collection of samples from your suspect, using the appropriate collection method, storage and labelling methods.)*

**6)** When you return to the classroom, everyone will share their samples so you may fill in this table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Shoe Length** | **Height** | **Blood Type** | **Hair Colour** |
| **Nikki W** |  |  |  |  |
| **Matt R** |  |  |  |  |
| **Shaun A** |  |  |  |  |
| **Emma A** |  |  |  |  |
| **Sandra D** |  |  |  |  |
| **Katie S** |  |  |  |  |
| **Crime Scene** |  |  |  |  |

**Part B – Analysis of evidence**

As a class you have collected several pieces of evidence that were found at the crime scene. Evidence has also been collected from the suspects. It is now your job to analyse the evidence and see if you can match a suspect to the crime scene.

There are several stations set up around the laboratory. Each station allows you to analyse different pieces of evidence. Your task is to record your results in a table so that they can be analysed in your final report.

* **Station #1** – Imprint Analysis
* **Station #2** – Powder Analysis
* **Station #3** – Blood Analysis
* **Station #4** – Handwriting and Fibre Analysis

**STATION ONE – IMPRINT ANALYSIS (FINGER, LIP & SHOE) *(6 marks)***

In the table below, list the main features of each sample.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Fingerprint** | **Lip Print** | **Shoe Print** |
| **Nikki W** |  |  |  |
| **Matt R** |  |  |  |
| **Shaun A** |  |  |  |
| **Emma A** |  |  |  |
| **Sandra D** |  |  |  |
| **Katie S** |  |  |  |
| **Crime Scene** |  |  |  |

**STATION TWO – WHITE POWDER ANALYSIS *(5 marks)***

Record your observations about any chemical reactions in the table below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Vinegar** | **Iodine** | **Water** | **Ethanol** | **Universal Indicator** |
| **Nikki’s car**  **Sample** |  |  |  |  |  |
| **Emma’s handbag**  **Sample** |  |  |  |  |  |
| **Crime Scene Sample** |  |  |  |  |  |

**STATION THREE – HANDWRITING & FIBRE ANALYSIS *(4 marks)***

Record your major observations in the table below.

|  |  |  |
| --- | --- | --- |
|  | **Handwriting Analysis** | **Hair Fibre Analysis** |
| **Nikki W** |  |  |
| **Matt R** |  |  |
| **Shaun A** |  |  |
| **Emma A** |  |  |
| **Sandra D** |  |  |
| **Katie S** |  |  |
| **Crime Scene** |  |  |

**STATION FOUR – ANALYSIS OF BLOOD *(8 marks)***

Record your observations in the tables below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Anti-A** | **Anti-B** | **Anti-Rh** | **Blood Type** |
| **Crime Scene Sample – rag** |  |  |  |  |
| **Crime Scene Sample – pool of blood** |  |  |  |  |
| **Nikki W** |  | | |  |
| **Matt R** |  | | |  |
| **Shaun A** |  | | |  |
| **Emma A** |  | | |  |
| **Sandra D** |  | | |  |
| **Katie S** |  | | |  |

**Part C – Report**

When a crime scene investigator has finished analysing the evidence, they prepare a report for the court outlining their findings. Your task is to prepare a report that shows what you have found out, your recommendations as to who you think the killer is and why you believe it is them. ***(17 marks)***

From the table of results, which suspect, if any, is likely to be the killer? ***(1 mark)***

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Explain which piece of evidence is the most useful in this case to identify the killer? ***(3 marks)***

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Describe how your evidence supports your recommendation for the killer. ***(3 marks)*** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Discuss any evidence that does not support your conclusion. ***(2 marks)*** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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State one form of additional analysis that could be performed on this evidence to strengthen your case and explain how it would help to convict the killer. ***(3 marks)***

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Justify whether this is enough evidence to convict the suspected killer. ***(2 marks)***

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You did not take any eyewitness testimonies during your collection of evidence. Eyewitness testimonies are sometimes not very useful when trying to identify a criminal. Describe why a single eyewitness testimony is generally not used when trying to convict a criminal. ***(3 marks)***

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**The end.**