**ACTIVITY 2-1:** LOCARD’S PRINCIPLE: Death of a Blonde Girl, Brooke Baker

**Introduction**: Locard’s exchange principle states that trace evidence can be exchanged between a crime scene, victim, and suspect, leaving trace evidence.

**Objective**: By the end of this activity, students will be able to:

1. Explain the correct procedure for securing and examining a crime scene.
2. Demonstrate the correct techniques for collecting and handling evidence.

**Safety Precaution:**

Wash your hands before starting work. Refrain from touching hair, skin, or clothing when collecting evidence. Wear gloves while collecting evidence.

**Scenario:**

A dead body of a blonde girl has been found at the library. The crime-scene investigators think that the body has been moved after killing. Trace evidence was found on the victim’s sock. It was determined that the crime could have occurred in three possible locations. Can you match the trace evidence found on the victim’s sock with trace evidence collected from three different locations and determine which location was the crime scene?

**Procedure:**

Three locations you will be visiting are outside our classroom, plumeria tree by I-building, and the library. Two of the three are already secured but library has to be still isolated and secured.

You do not have too much time to study each area. You are given 5 - 10 minutes in each location. That includes the library – to secure, to photograph, to sketch, to collect evident, and to document.

You will need to assign a role for each member of the group. If you don’t have enough members, you might have to assume more than one role.

Groups 1 and 2 please start at the library then to tree then to classroom. Groups 3 and 4 start by the tree to the classroom then to the library. Groups 5 and 6 start by the classroom to tree then to the library. Group 7 and 8, we will analyze the sock evidence together in the class then move onto crime scene out the classroom.

Because many groups have to investigation, you can only remove trace evidence from each location. They are listed as follows:

Library – hair (dry evidence)

Plumeria Tree – rocks (dry evidence)

Classroom – blood (wet evidence)

Please ask the teacher for your role checklist before leaving the classroom. Read the role sheet and understand your role and responsibility before leaving. If you do not understand, please ask before leaving to each CS.

At the end of investigation, everyone report back to group then pick up group analysis sheet to complete.

Remember that other classes are in session when you are walking around. No loud conversation in the hallway. Any report of other class disturbance will count against your CSI lab grade.

**Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Group #: \_\_\_\_\_ Period: \_\_\_\_\_\_ Case # 2-1 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Questions:**

1. Based on your examinations of the trace evidences including the sock evidence found at library (given by the teacher), which of the three sites was probably the primary crime scene? Justify your answer.
2. Why were gloves necessary in the collection and handling of trace evidence?
3. What other instruments could be used to improve on your ability to identify evidence?
4. A suspect’s shoes and clothing are confiscated and examined for trace evidence. What kind of trace evidence might be found on the clothes or shoes? List at least five examples of trace evidence from the shoes or clothing that might be useful in linking a suspect to a crime scene.
5. A home burglary has occurred. It appears the perpetrator entered after breaking a window. A metal safe had been opened by drilling through its tumblers. A suspect was seen running through the garden. Three suspects were interrogated and their clothing was examined. List at least three examples of trace evidence that might be found on the suspect.

Categories point

1. Properly secure the crime scene (video tape – TA) \_\_\_\_\_\_\_\_/5 points
2. Photograph of three locations - overview & close up/proper angle \_\_\_\_\_\_\_\_/10 points

(library, tree, and outside our classroom)

1. Crime Scene Sketch (tree) \_\_\_\_\_\_\_\_/10 points
* Not to scale
1. Proper Documentation & bagging of three evidences \_\_\_\_\_\_\_\_/10 points

(rock –ziplock & document, hair – ziplock & document, blood- brown bag & document)

1. Proper Chain of Custody \_\_\_\_\_\_\_\_/5 points

 (sock evidence)

1. Question/Answer (this sheet) \_\_\_\_\_\_\_\_/10 points

Total: \_\_\_\_\_\_\_\_/50 points