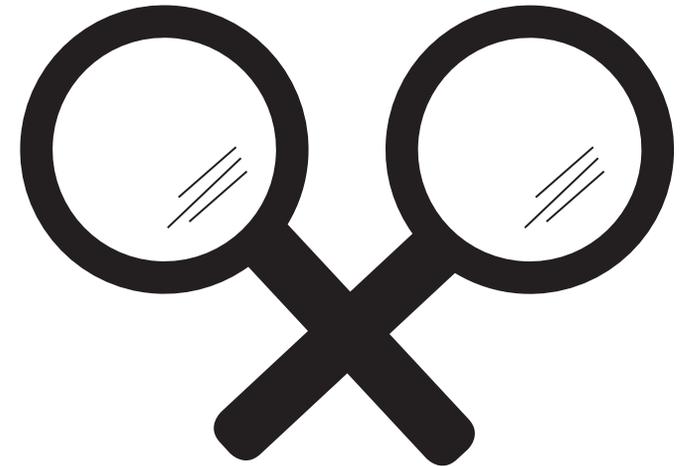


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# **CRIME FIGHTER'S CASE BOOK**

Detective's Name

Staple

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## TOOL MARKS LAB: TOOL MARKS AT THE POINT OF ENTRY

### ABOUT THE EVIDENCE

Police surveyed the Grizzlys' home and located the point of entry at the back of the house. The backdoor leading into the kitchen had clearly been vandalized. Pronounced tool marks were visible around the doorframe and the doorknob. The police took photos and dusted the door for fingerprints. While no prints were uncovered, the tool marks left on the door could be analyzed to identify the weapon used to enter the home. Three tools were taken from three of the suspects for laboratory examination.

### The three types of Tool Marks

Moulded: The object is inserted into the surface.

Slipped: The object is dragged across the surface.

Combo: The object is both inserted and dragged across the surface.

### Your Investigation

- Carefully examine the photographic evidence of the Grizzlys' busted door and examine the three suspects' tools. Can you predict which tool made the markings visible in the photograph?
- Test each tool to find what kinds of marks it makes. For each tool, create a tool mark sample using cubes of modelling clay, then draw the result on the table to the right.
- Circle the type of tool mark that matches the marks in the photograph.

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SHOEPRINT SAMPLE(S) FROM THE SCENE OF THE CRIME		
<b>DESCRIPTION</b> Size   Brand   Other details (damage, wear patterns, etc.)		
SHOEPRINT SAMPLES FROM SUSPECTS		
SUSPECT A	SUSPECT B	SUSPECT C
<b>DESCRIPTION</b> Size   Brand   Other details (damage, wear patterns, etc.)	<b>DESCRIPTION</b> Size   Brand   Other details (damage, wear patterns, etc.)	<b>DESCRIPTION</b> Size   Brand   Other details (damage, wear patterns, etc.)

## **IMPRESSION ANALYSIS LAB: FOOTWEAR IMPRESSION IN THE GARDEN**

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### **ABOUT THE EVIDENCE**

From the deep footprints found in the garden bed, it appears that the perpetrator escaped by jumping from the second-floor bedroom into the garden. The soil had been disturbed, and the police were able to photograph and make an impression mould (casting) of the footprint. The impression was later bagged and sent to the lab. Unfortunately, no pieces of trace evidence (other residue that might give clues as to the owner of the shoe) were found. The print evidence will have to be compared to sample prints from the suspects' shoes.

### **Your Investigation**

1. Carefully analyze the print found in the garden and record any details you can find in the table on the right.
2. Compare the print to the sample prints taken from the three suspects. Can you match any of the suspects' shoeprints to the one found at the scene of the crime?

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<b>TOOL MARKS</b>		
<b>SUSPECT A</b>	<b>SUSPECT B</b>	<b>SUSPECT C</b>
TOOL TYPE	TOOL TYPE	TOOL TYPE
MOLDED	MOLDED	MOLDED
SLIPPED	SLIPPED	SLIPPED
COMBO	COMBO	COMBO

## FINGERPRINTING LAB: LATENT FINGERPRINTS IN THE KITCHEN

### ABOUT THE EVIDENCE

Entering into the kitchen, police noticed that many dishes had been used, perhaps by the suspect. Police bagged several dirty bowls and drinking glasses and dusted them for fingerprints. The latent fingerprints were sent to this lab for your careful analysis.

### Your Investigation

- Carefully examine the fingerprints and draw or identify the pattern type on at least three of the objects.
- Compare the suspect fingerprint cards with the ones you have identified. Can you find a match?



ARCH



TENTARCH



RIGHT LOOP



LEFT LOOP



DOUBLE LOOP



RIGHT POCKET LOOP



LEFT POCKET LOOP



WHORL



MIXED FIGURE

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HAIR SAMPLE FROM THE SCENE OF THE CRIME		
<b>DESCRIPTION</b>		
Colour		
Texture		
Other details		
HAIR SAMPLES COLLECTED FROM SUSPECTS		
SUSPECT A	SUSPECT B	SUSPECT C
<b>DESCRIPTION</b>	<b>DESCRIPTION</b>	<b>DESCRIPTION</b>
Colour	Colour	Colour
Texture	Texture	Texture
Other details	Other details	Other details

## HAIR ANALYSIS LAB: HAIR SAMPLE FROM THE BEDROOM

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### ABOUT THE EVIDENCE

The bedrooms on the second floor were ransacked, and it was clear that the perpetrator had spent the whole weekend at the Grizzlys' cottage. After surveying the rooms, police identified that the culprit had slept in the son's bedroom. The police carefully searched the bedroom and found hair samples, which they sent to the lab to be processed.

### Your Investigation

1. Carefully examine and record notes about each of the hair samples provided.
2. Compare the hair evidence gathered at the scene to each of the samples provided by the suspects.
3. Determine which suspect's hair most closely matches the hair found at the scene of the crime.

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FINGERPRINT SPECIMEN CARD	
PRINT 1 FOUND ON	
PRINT	NOTES
PRINT 2 FOUND ON	
PRINT	NOTES
PRINT 3 FOUND ON	
PRINT	NOTES

