

Forensic Science

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CRIME SC

Fingerprint Activity

FINGERPRINT WORKSHEET

Take your fingerprints. Put ink on your fingerprint, place your finger up over the designated square. Press the left edge of your finger up down and roll your finger across the right. Rolling is crucial to get a full fingerprint and not just a partial one.


Analyze your fingerprints. Identify the ridge patterns and where ridges cross. Count the ridges with the circles. Record the class and number of each fingerprint pattern by the total number of fingers. Write the ridge characteristics for each of your fingerprints. Share with your partner.

Left Thumb	Left Index	Left Middle	Left Ring	Left Little	Right Thumb	Right Index	Right Middle	Right Ring	Right Little

FINGERPRINT RIDGE PATTERNS

Loops


60% of prints



Loops are the most common fingerprint pattern. They enter from one side, curve around a central point, and exit on the same side. There are three types: Ulnar Loop, Radial Loop, and Double Loop.

Whorls


30% of prints



Whorls are circular or spiral patterns. They are the second most common fingerprint pattern. There are three types: Plain Whorl, Plain Whorl, and Plain Whorl.

Arches

10% of prints




Arches are the least common fingerprint pattern. They enter from one side, rise in the center like a wave, and exit on the opposite side. There are two types: Plain Arch and Plain Arch.

Ridge Pattern	Class	Count
Ulnar Loop	U-shape, points toward ulna (bottom)	1
Radial Loop	U-shape, points toward radius (bottom)	1
Plain Whorl	Circular shape	1
Double Loop Whorl	U-shape	1
Concentric Whorl	Concentric shape with center U-shape	1
Accidental Whorl	Whorl shape	1
Arch	Ridges go from left to right	1
Plain Arch	Plain shape (bottom)	1

Even though identical twins have the same DNA, they do not have identical fingerprints.

FINGERPRINT MINUTIAE

(ridge characteristics)



ridge pattern and minutiae information and worksheet

Forensic Science Fundamentals And Investigations

Activity 13 1 Key

AW Chickering



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