

# Forensic Science

CRIME SCENE - DO NOT CROSS

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CRIME SC

# Fingerprint Activity

### FINGERPRINT WORKSHEET

Take your fingerprints. Put ink on your fingerprint plate, place your finger up over the designated square. Press the left edge of your finger tip down and roll your finger across the right. Rolling is crucial to get a full fingerprint print without smudging.

Analyze your fingerprints. Identify the ridge patterns and where pattern, loops, and whorls with the circles. Record the class and number of each fingerprint pattern by the total number of fingers. These ridge characteristics for each of your fingerprints. Draw in

left thumb

left index

left middle

left ring

left pinky

right thumb

right index


right middle

right ring

right pinky


### FINGERPRINT RIDGE PATTERNS

**Loops**  
60% of prints




Left Hand  
Right Hand

**Whorls**  
30% of prints



Left Hand  
Right Hand

**Arches**  
10% of prints













Left Hand  
Right Hand

Ridge Pattern	Class	Count
Plain Loop	u-shape, points toward ulnar (bottom)	1
Plain Loop	u-shape, points toward radial (bottom)	1
Plain Whorl	circular shape	2
Double Loop Whorl	u-shape	2
Central Plain Whorl	circular shape with delta u-shape	2
Accidental Whorl	irregular shape	2
Arch	ridges go ridge to ridge	2
Barrel Arch	hump 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

**N Colangelo**



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