

DLR

Forensic Science



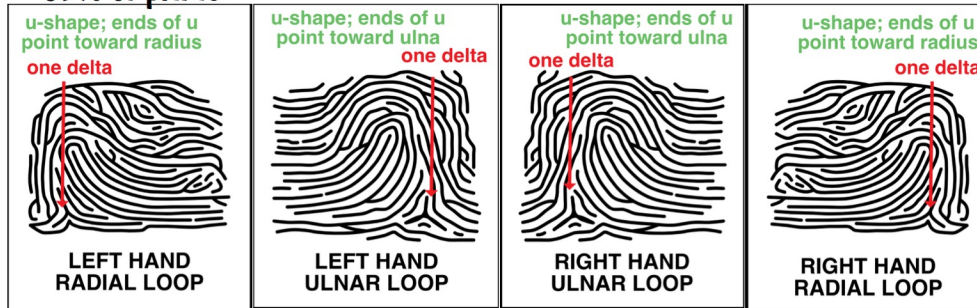
Fingerprint Activity

**information and worksheet
for analysis of fingerprints**

FINGERPRINT RIDGE PATTERNS

Loops

65% of prints



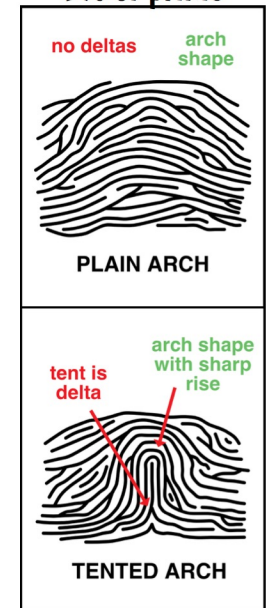
Whorls

30% of prints



Arches

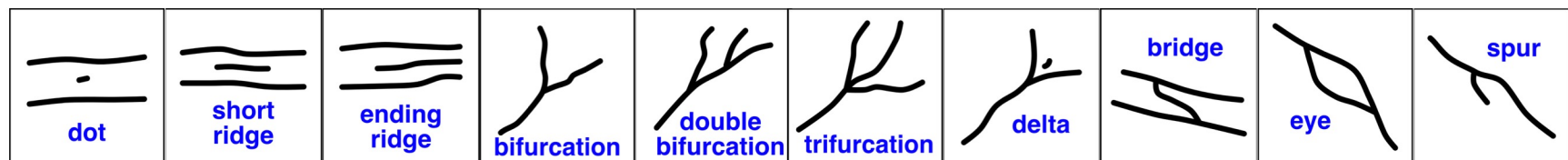
5% of prints



Ridge Pattern	Core	Deltas
Ulnar Loop	u-shape, points toward ulna (bone)	1
Radial Loop	u-shape, points toward radius (bone)	1
Plain Whorl	circular shape	2
Double Loop Whorl	s-shape	2
Central Pocket Whorl	circular shape with outer u-shape	2
Accidental Whorl	elliptical shape	2+
Arch	ridges go edge to edge	0
Tented Arch	tent shape (pointy)	1

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

FINGERPRINT MINUTIAE (ridge characteristics)



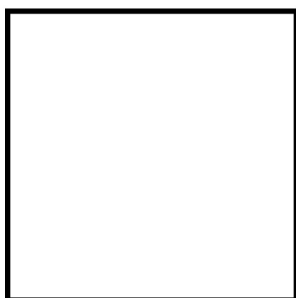
FINGERPRINT WORKSHEET

Name: _____

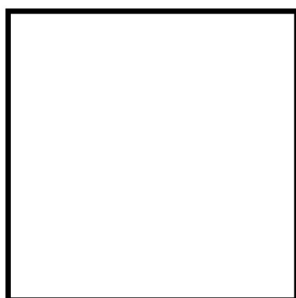
Take your fingerprints. Put ink on your fingerprint, place your finger tip over the designated square. Press the left edge of your finger tip down and roll your finger towards the right. Rolling it creates a full fingerprint print instead of just the core.

Analyze your fingerprints. Identify the ridge patterns and share your ridge pattern (whorl, loop, arch) numbers with the class. Record the class data. Divide the number of each fingerprint pattern by the total number of fingerprints. Identify three ridge characteristics for each of your fingerprints. Share with a classmate.

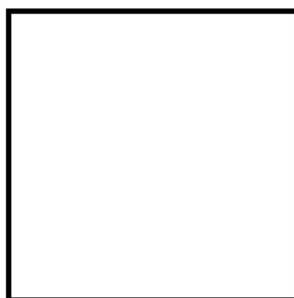
Class Data	Loops	Whorls	Arches
How many?			
Total			
Percentage			



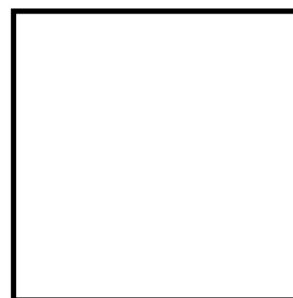
left thumb



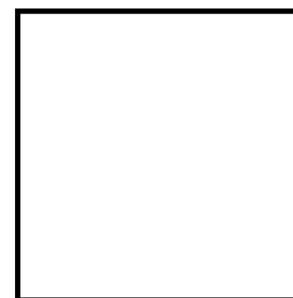
left index



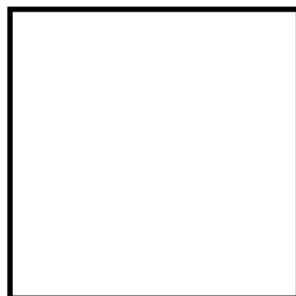
left middle



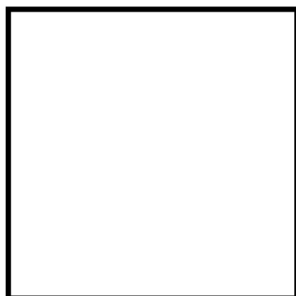
left ring



left pinky



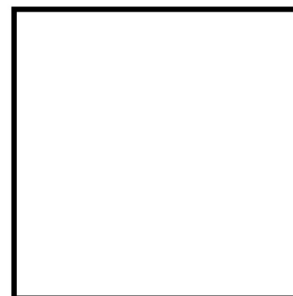
right thumb



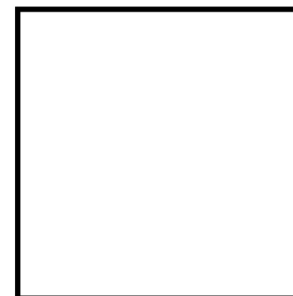
right index



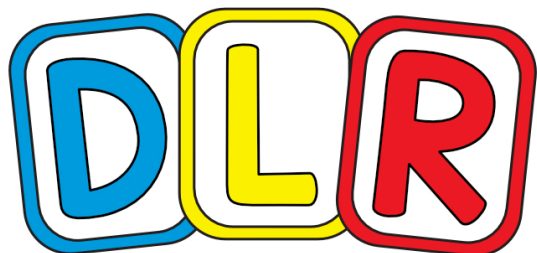
right middle



right ring



right pinky



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