The Basics of Fingerprinting Guided Notes

1. According to criminal investigators, fingerprints follow 3 fundamental principles:

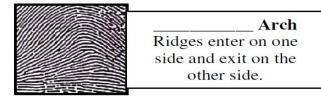
A fingerprint is an ______characteristic; no two people have been found with the ______same fingerprint pattern.

A fingerprint _____ will remain _____ for the _____ of an individual; however, the print itself may change due to permanent scars and skin diseases.

Fingerprints have general characteristic ______ patterns that allow them to be systematically identified.

2. There are 3 specific classes for all fingerprints based upon their visual pattern:

5. Arches are the simplest type of fingerprints that are formed by ridges that enter on one ______ of the print and exit on the ______. No ______ are present.

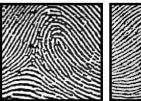




Arches Similar to the plain arch, but has a spike in the center.

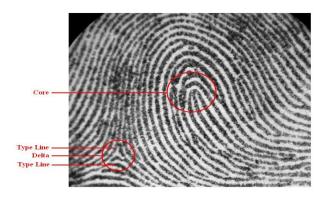
6. **Loops** must have one ______ and one or more ______ that enter and leave on the same side. These patterns are named for their positions related to the ______ and _____ bones.

Loop opens toward the thumb or radius bone on the right hand.



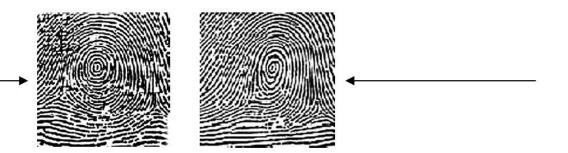


Loop opens toward the little finger or the ulna bone on the right hand.



7. Whorls have at least one ______ that makes (or tends to make) a complete _____ They also have at least ______ deltas. If a print has more than two deltas, it is most likely an ______.

8. Draw a line between the two deltas in the plain and central pocket whorls shown below. If some of the curved ridges touch the line, it is a plain whorl. If none of the center core touches the line, it is a central pocket whorl. Label each fingerprint below.





_____ whorls are made up of any two loops combined into one print.



whorls contain two or more patterns (not including the plain arch), or does not clearly fall under any of the other categories.



9. Identify each fingerprint pattern shown on the class notes.

A	C	D	
B		E	
<i>10.</i> blood, paint, grease, or ink.	are made after	coming in contact with color	ed material such as
11 soap, or dust.	are ridge impre	essions left on a soft material	such as putty, wax,
12 tool handle, glass, door, etc.	are impressio	ons left by friction ridge skin on a	a surface, such as a
13. Prints may be collected by reve lifted with a piece of		ting of	and then
14. What is the most common type	of animal hair that is	used to make brushes?	
15. Some investigators use multicolored or dark surfaces.	pow	der and UV lights to help them	find latent prints on
16 powder c surfaces or _			owder works better on
17. The	fuming method	l (often called the super glue me	ethod) is a procedure

that is used to develop latent fingerprints on a variety of objects.

Fingerprint Worksheet Please identify the class of each of the provided fingerprints

