**Forensic Science**

**History of Fingerprinting Notes**

1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* In \_\_\_\_\_\_\_\_\_he created the first systematic system of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ classification & identification.
* Detailed description of subject, full-length & profile photographs & a system of precise body measurements (called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_).

2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* British \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and a cousin of Charles Darwin, began his observations of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_as a means of identification in the 1880's.
* In \_\_\_\_\_\_\_\_\_\_\_, he published his book "Fingerprints“, establishing the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and permanence of fingerprints. The book included the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_classification system for fingerprints.
* Galton's primary interest in fingerprints was as an aid in determining \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and racial background.
* He soon discovered that fingerprints offered \_\_\_\_\_\_\_\_firm clues to an individual's intelligence or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* He demonstrated that fingerprints \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ over the course of an individual's lifetime, and that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fingerprints are exactly the same.
* According to his calculations, the odds of two individual fingerprints being the same

were 1 in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Case and Bertillon Measurements

* \_\_\_\_\_\_\_\_\_\_\_\_\_: For many years, scientists did not use fingerprinting as a serious tool for identifying criminals. Instead, they used a system which recorded the dimensions of certain skeletal body parts (known as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_). But in 1903, Leavenworth Federal Penitentiary received a prisoner by the name of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Shockingly, Will had almost the same Bertillon measurements (as well as appearance) as another prisoner currently serving a life sentence for murder. But even though the two unrelated criminals looked \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and had similar names (the other inmate’s name was William West), their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_were, of course, different. Thanks to this remarkable case, fingerprinting became the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for personal identification.

You be the judge….Can you see the difference?



4) Fingerprint Information—What Have We Learned?

* The patterns of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on our finger pads are unique: no two individuals—even \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_—have fingerprints that are exactly alike.
	+ We leave\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_—or prints—of these patterns on everything we touch with any pressure.
	+ The prints can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, as when our fingers are dirty or oily, or they can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, as when they are made only by the sweat that is *always* present on our finger ridges.
	+ Injuries such as burns or scrapes will \_\_\_\_\_\_change the ridge structure: when new skin grows in, the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_will come back.
* *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* is the practice of using fingerprints to identify someone. Fingerprints can be classified by pattern \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of those patterns, and by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of the patterns on the finger.