

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

Forensic Science Fall Final – this is an all or nothing extra credit.

### Introduction to Forensic Science: History and Cases

1. Miranda warning
2. MMO
3. Forensics
4. Forensic Science
5. Frye Standard
6. Daubert Ruling
7. Statutory law
8. Civil law
9. Common law
10. Administrative law
11. Good observation skills
12. Direct evidence
13. Circumstantial evidence
14. Orfila
15. Bertillon
16. Locard
17. Jeffreys

### Crime Scene Investigation

1. 4<sup>th</sup> amendment
2. Steps of a crime scene investigation
3. 7 S's of crime scene investigation
4. Photograph ranges at a crime scene (for evidence)
5. Types of search patterns
6. Steps of the scientific method as it pertains to forensic science
7. Crime scene investigator team members
8. Types of lighting
9. Steps to sketch a crime scene

### Evidence

1. Chain of custody
2. Transient evidence
3. Conditional evidence
4. Pattern evidence
5. Associative evidence
6. Protocol for collecting and bagging evidence

### Fingerprints

1. How fingerprints form in humans
2. Class evidence
3. Individual evidence
4. Common classifications of fingerprints (give %'s)
5. Latent prints
6. Patent prints
7. Contaminated patent print

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8. Plastic patent print
9. Galton details/minutiae
10. Classification of prints
11. Sub categories of prints
12. Eccrine gland
13. Sebaceous gland
14. Principle of permanence
15. Principle of uniqueness

16. Fill the table:

| Method         | Surface used on | What does it react with? | Development color |
|----------------|-----------------|--------------------------|-------------------|
| Powder (dust)  |                 | Physical (no reaction)   |                   |
| Ninhydrin      |                 |                          |                   |
| Silver nitrate |                 |                          |                   |
| Cyanoacrylate  |                 |                          |                   |
| Iodine fuming  |                 |                          |                   |

### Hairs and Fibers

1. 3 cuticle patterns of hair
2. Nuclear DNA
3. Mitochondrial DNA
4. Medullary index
5. Hair and plant fibers use in forensic science
6. Medulla
7. Cortex
8. Cuticle
9. Natural fibers
10. Synthetic fibers
11. Woven fibers
12. Class evidence
13. Individual evidence
14. Fill in the table:

| Type of fiber       | Characteristics | Example |
|---------------------|-----------------|---------|
| Natural animal      |                 |         |
| Natural plant       |                 |         |
| Natural mineral     |                 |         |
| Synthetic cellulose |                 |         |
| Synthetic polymer   |                 |         |