

## Activity I: The Crime Scene

Did students cover the following:

- **Forensic science** – combines legal and scientific
- Have we determined this was a **crime**?
  - EMT/Medics pose a threat crime... why?
- How do we **process the crime scene**?
  - **Collecting evidence** – passing evidence from one party to another...chain of custody
  - **Locard Principle** – whenever 2 objects come into contact there is always a transfer of material
- **Hair** (Biology) animal? Human?
- **Blood** (Biology) DNA analysis as well as blood typing
- **Ballistics** (Physics)
- **Soil** (Geology) Soil or other materials left in prints, on clothing or on victim. Match to a certain location (river clay) or occupation (potter).
- **Examination of documents** – handwriting specialists, computer specialists. A scrap of note with ink can be very useful! Use chromatography or spectrophotometry analysis to compare ink with that of pens belonging to suspects. The note may also be used to do a handwriting analysis.
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- **Fingerprints/Footprints/handprints/kneeprints:** Determine print classification and match to suspect. Fingerprint position on weapon determines which finger(s) you have. Indicate height from stride length, weight from print depth
- **Toxicology/drug analysis**
- **Fiber Analysis** (was there a piece of cloth?)
- **Odontology** – teeth marks!
- **Weapon Expertise** Knife with one or more "blood types" (killer's on handle, victim's on blade)
- **Photographer**—a very important job! As well as a **sketch of the scene** is needed
- **Saliva** on glass or straw for blood typing of secretors.

### Wrap-up

Discuss the case of the psychiatrist who shot up the army base...

- They didn't even know he was a suspect until he was already on the operating table
- Each day there is news of unfolding 'evidence', like he sold all of his furniture the day before... he had a type of gun that could penetrate even bullet proof vests...

Crime → discovered → ID Suspect → investigation → collect information → document crime scene/search for evidence → prosecutor report → establish probable cause → arrest warrant

## **Activity II: The Bill of Right Charades**

The Law aspect of Forensic Science is just as important as the Science Investigation itself, because if the science isn't done in a way that will stand up in court, it's useless!

## **Homework Assignment**

*Homework: Chose and obtain your mystery novel and chunk it into 13 readable sections and read the first chunk (due 11-28). NOTE: Whole project with Evidence Box and Presentation due date is Thursday, 12/10*