

Forensic Science 2

Students will continue their work as crime scene investigators (CSIs) using forensic skills already practiced, new techniques, and logic and reasoning skills to solve mock cases. Students will combine finger printing, ballistics, blood typing, and DNA analysis with new skills of facial composites, glass fracture, handwriting analysis, chromatography, and paper money analysis to solve fictitious cases of a bank robbery, drug bust, and kidnapping. For sensitive students, please note that while actual crime scene details and graphic photographs will not be shown to students, the nature forensic science will suggest and reference crime scenarios.

Week 1: Bank Robbery Case – Crime Scene

- Students are introduced to the case that they must solve, a bank robbery.
- During the first week, students will document the crime scene

Week 2: Bank Robbery Case – Facial Composite

- Students will learn about and create the composite interview process
- Students will learn how to use facial composite software to document

Week 3: Bank Robbery Case – Blood Typing

- Students will learn about the different blood groups and antigens
- Students learn how to test the blood type and perform the experiment on simulated blood

Week 4: Bank Robbery Case – Blood Spatter & Glass Fracture Analysis

- Students learn how to analyze and interpret blood stains found at the scene
- Students learn about trace evidence and learn what fracture patterns in glass can tell us

Week 5: Bank Robbery Case – Fingerprint and DNA Analysis

- Students learn about the individual characteristics of fingerprints and dust and lift fingerprints from the scene. Students then learn how to analyze the lifted fingerprints
- Students learn what forensic serologists do and analyze DNA fingerprints
- Finally, students work as a team to summarize the evidence and solve the case

Week 6: Drug Bust Case

- Students are introduced to a different set of tests to conduct confirming tests of a fictional drug arrest.
- Students will learn how to do chromatography testing, paper money analysis and handwriting analysis to solve the case.

Week 7: Kidnapping Case

- Students are brought to solve a fictional kidnapping case.

- Using various analysis techniques, including paper, ink and fiber analysis, students use their critical thinking skills to solve the case.

