

Content: Elective	Grade or Course: Forensic Science	Date Developed: 1/9/2019
Overview: <p>Forensic Science is an inquiry-rich integrated science course that focuses on scientific practices and the analysis of physical evidence found at crime scenes. A multidisciplinary approach will be followed, incorporating concepts in chemistry, biology, physics, mathematics, statistics, psychology, communications, and the law. Possible topics covered include crime scene investigation and evidence examination, fibers and fabrics, fingerprinting, blood and blood spatter, glass evidence, and ballistics.</p> <p>This is a 0.5 credit elective course in which students will be expected to occasionally complete work at home, including evaluating the results of activities completed in class and homework assignments.</p>		
Essential Questions: <ul style="list-style-type: none"> ● How are scientific principles relevant to the analysis of evidence found at crime scenes? ● How can the use of inquiry lead to establishing patterns that can be generalized to scientific laws? ● How accurately can forensic scientists individualize various types of evidence? ● How can inductive and deductive reasoning based on the scientific analysis of evidence be used to recreate events that occurred in the past? 		
EO's addressed to proficiency level: Students will understand, demonstrate, and be evaluated on the following Scientific Practices: <ul style="list-style-type: none"> ● P4: Analyzing and Interpreting Data ● P5: Using Math and Computational Thinking ● P6: Constructing Explanations ● P7: Engaging in Argument over Evidence 		

Standards:

Students will understand and use the following additional Scientific Practices:

- P1: Asking Questions and Defining Problems
- P2: Developing and Using Models
- P3: Planning and Carrying out Investigations
- P8: Obtaining, Evaluating, and Communicating Information

Students will understand and use the following Cross-Cutting Concepts:

- Patterns (fingerprints, hair, fibers)
- Cause and Effect (glass fractures, blood spatter)

Units:

Unit 1	Physical Match
Unit 2	Hair
Unit 3	Fibers and Fabrics
Unit 3	Evidence Collection
Unit 4	Fingerprinting
Unit 5	Glass
Unit 6	Blood

EO Assessments:

- Crime Scene 1 - (Case 1287 - Camp Bomb Threat)
- Crime Scene 2 (Case 1347 - Art Gallery Theft)
- Final Crime Scene (Teacher Abduction)