Union County Educational Services Commission
High School Course Syllabus

Title: Forensics

Timeline: Full Year; 5 Credits

Course Description:
How do you catch a criminal? That is the question that this guiding and scientifically rigorous class attempts to answer. Through new-age techniques and historical precedents, the topic of legality and CSI merge into this cause-and-effect course of intrigue and deceit. From fingerprinting to DNA analysis, students will get a front row seat into the inner workings of our criminal justice system. Moreover, they will learn how the guilty get convicted and the innocent get exonerated in the United States.

Scope and Sequence:

I. Investigation & Evidence Hair
II. Blood Spatter; Death – Manner, Mechanism and Cause
III. Forensic entomology and forensic anthropology
IV. Forensic Psychology

Refer to the attached curriculum map for a detailed outline of course objectives.

Curriculum Alignment:
New Jersey Student Learning Standards - Science
Next Generation Science Standards

Grading Procedures:

Do Now	10%
Participation	20%
Class Assignments	50%
Assessments	20%

Adoption Date:
June 2024

Union County Educational Services Commission
Curriculum Mapping– Forensics

	Unit 1	**Unit 2**	**Unit 3**	**Unit 4**
Number of Weeks	approx. 10	approx. 10	approx. 10	approx. 10
Topics	Investigation and Evidence	Blood spatter Death - Manner, Mechanism, and Cause	Forensic entomology and forensic anthropology	Forensic Psychology (only taught in full-year class)
Standards	HS-ETS1-2 - Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.	HS-ETS1-2 - Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.	HS-ETS1-2 - Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.	HS-ETS1-2 - Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.
Content/ Disciplinary Core Ideas	Observation Skills Crime Scene Eyewitness Accounts Locard's Principle Hair Fiber DNA Fingerprints	Blood Spatter Four Manners of Death Stages of Decomposition Autopsy Report Environmental Factors in Determining of Time of Death Using Bones and Bone Fragments	Insects and the Time of Death Determining the time of death Using Bones and Bone Fragments	The Mind of Psychopath What Makes a Serial Killer Mass Murder vs. Serial Killing Gang Mentality and How it Relates to Psychology History of Profiling Modus Operandi Signatures of Serial Killers
Skills/ Science and Engineering Principles	Developing and Using Models Engaging in Argument	Constructing explanations and designing solutions, Obtaining, Evaluating, and	Constructing explanations and designing solutions, Obtaining, Evaluating, and	Constructing explanations and designing solutions, Analyzing and Interpreting

	from Evidence Constructing Explanations and Designing Solutions	Communicating Information Analyzing and Interpreting Data Asking Questions and Defining Problems Planning and Carrying Out Investigations Engaging in Argument from Evidence	Communicating Information Analyzing and Interpreting Data Asking Questions and Defining Problems Planning and Carrying Out Investigations Engaging in Argument from Evidence	Data Using Mathematics and Computational Thinking Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information Constructing Explanations and Designing Solutions
Crosscutting Concepts	Cause and Effect Scale, Proportion, and Quantity	Cause and Effect Patterns Stability and Change	Cause and Effect Patterns Stability and Change	Cause and Effect Patterns Stability and Change
Resources	https://sciencespot.net/Pages/classforsci.html https://online.maryville.edu/online-bachelors-degrees/forensic-psychology/forensic-science-lessons-students/ http://stem-works.com/subjects/10-crime-scene-investigation/activities http://forensics.rice.edu/ https://ehs.goddardusd.com/58283_4			