



Floyd County Schools | Forensics Curriculum Map

Unit Name	Unit 1: History & Law	Unit 2: Crime Scene Investigation & Collection	Unit 3: Physical Evidence- Hair, Fiber, Soil Glass Analysis	Unit 4: Physical Evidence- Impression Evidence (Fingerprints, Footwear, tool marks)	Unit 5: Biological Evidence- DNA Profiling	Unit 6: Biological Evidence- Blood Typing & Bloodstain Patterns	Unit 7: Forms of Communication - Handwriting and Digital Evidence	Unit 8: Forensic Toxicology	Unit 9: Forensic Entomology	Unit 10: Forensic Anthropology	Unit 11: Death Investigation
Time Frame	2 weeks	4 weeks	2 weeks	4 weeks	3 weeks	3 weeks	2 weeks	5 weeks	3 weeks	3 weeks	5 weeks
Standards/ IB Topics	SFS1. A	SFS1. B, C, D SFS2. A	SFS2. B SFS2. E	SFS4. A, B, C	SFS3. E	SFS3. C, D	SFS4. B, C SFS2. D	SFS3. A, B	SFS5. D	SFS5. E	SFS5. A, B, C
Content Specific Information (texts, documents, methods)	Statement of Inquiry Human observation sometimes results in inaccurate perception. Phenomenon Julius Earl Ruffin spent 21 years in jail for a crime he did not commit. CORE IDEAS - Scientific Observation - History of Forensics	Statement of Inquiry Inadequate evidence collection can lead to false imprisonment. Phenomenon Officers in the JonBenet Ramsey case made mistakes that may have resulted in the contamination or destruction of evidence. CORE IDEAS - Locard's Principle of Exchange - Types of Evidence	Statement of Inquiry Locard's Exchange Principle dictates that evidence, both physical and biological, is to be found at the scene of the crime. Phenomenon Fibers found on victims bodies in the Atlanta Child murder case lead investigators to a common location. CORE IDEAS - History of Hair, Fiber, Soil, Glass Analysis - Characteristic of Hair, Fiber, Soil, Glass - Collecting	Statement of Inquiry Locard's Principle suggests that the perpetrator always leaves something behind in a crime scene. Phenomenon William West was booked into a federal prison in Leavenworth, Kansas. To much surprise his name, Bertillion measurements, and resemblance matched a man already incarcerated. CORE IDEAS History of impression	Statement of Inquiry As technology advances, forensic scientists are able to analyze smaller and smaller biological samples to develop a DNA profile. Phenomenon A body torso was found in a sewer (missing all identifiable features). The police were still able to identify the victim. CORE IDEAS History of DNA profiling	Statement of Inquiry Because blood demonstrates surface tension, or cohesive forces that act like an outer skin, a drop of blood dropped at a 90° angle forms a near perfect spherical shape. Phenomenon An 80 year old woman was found dead on the floor of her bathroom. Her husband states it was suicide. CORE IDEAS History of blood	Statement of Inquiry The techniques and tools used in forensic document examinations leverage well-established principles of physics and chemistry. Phenomenon A tourist in Miami was issued a parking ticket which he overpaid. On his \$2 refund check from the city, he changed the amount and deposited \$1.45 million into his account in Argentina. CORE IDEAS	Statement of Inquiry Investigators rely on forensics toxicologists to make reliable conclusions about the impact of a specific amount of substance would have on a specific individual. Phenomenon Cory Monteith, a star from <i>Glee</i>, was found dead of a drug overdose in 2013. Death was classified as a suicide, even though Cory was very	Statement of Inquiry By studying the insect population and the developing larval stages, forensics scientists can estimate the postmortem index. Phenomenon A badly burned body of an unidentified person was found in the woods in Mexico. The only tissue remaining was a piece of burned liver that could not be analyzed for DNA. Maggots were found feeding on	Statement of Inquiry With their training in archaeology, forensic anthropologists are knowledgeable about excavating buried remains. Phenomenon A skull was found in Missouri at an old boy scout camp. Through forensic analysis the skull was determined to be that of Bun Chee Nyhuis, the scoutmaster's	Statement of Inquiry Bacteria, Archaea, and microbial eukaryotes are used to provide insight into several aspects of medicolegal death investigations. Phenomenon Thomas, from Chicago, went missing after trying to collect a debt from a friend. His remains were later found in upstate Michigan. CORE IDEAS

		Collecting & Analyzing Evidence	Hair, Fiber, Soil, Glass Evidence Forensic Analysis of Hair, Fibers, Soil, & Glass	- evidence Characteristics of impression evidence - Collecting impression evidence - Forensic	Characteristics of Blood and DNA profiling Collection and preservation of DNA	spatter evidence - Characteristics of blood and blood spatter - Collecting blood	- History of communication evidence - Characteristics of communication evidence	happy in life. CORE IDEAS - History of Forensic toxicology - Characteristics of Poisons, Toxins, and	human tissue at the crime scene. From this they were able to identify the identity of the victim. CORE IDEAS	wife. CORE IDEAS - History of Forensic Anthropology - Characteristics of bones	- Mechanisms of death - Manner of death - Post-mortem changes
				Analysis of impression evidence.	evidence Forensic analysis of DNA	spatter evidence Forensic analysis of blood spatter	- Collecting communication evidence - Forensic analysis of communication evidence	Drugs - Collecting toxicological evidence - Forensic analysis of poisons, toxins, and drugs	- History of forensic Entomology - Characteristics of Forensic Entomology - Processing a crime scene for insect evidence - Forensic analysis of insect evidence.	- The search, collection, and documentation of skeletal remains - Forensic analysis of skeletal remains	
Common Assessments/ Major Projects	SEP - Constructing Explanations Major Projects: - Case Study	SEP - Plan and Carry Out Investigations - Constructing Arguments From Evidence - Developing Models to analyze and Communicate Information Major Projects: - Collecting Evidence from Crime Scene	SEP - Planning and Carrying Out An Investigation - Asking Questions Major Projects: - Trace Evidence Collection and Analysis	SEP - Constructing Explanations - Analyze and Interpret Data - Construct an Explanation Major Projects: - Fingerprint analysis - Footwear Analysis - Tool mark Analysis	SEP - Plan and Carry Out an Investigation Major Projects: - Detecting for the presence of Blood - Gel Electrophoresis	SEP - Constructing Explanations - Plan and Carry Out Investigations Major Projects: - Calculating blood stain patterns and trajectory	SEP - Analyze and Interpret Data - Constructing Explanations Major Projects: - Handwriting analysis - Examination of U.S. Currency: Is It Authentic or Counterfeit?	SEP - Asking Questions - Analyze and Interpret Data Major Projects: - Drug Analysis - Debate: Should Medical Marijuana Be Legalized in All States?	SEP - Analyze and Interpret Data Major Projects: - Decay of tissue with insect identification	SEP - Plan and Carry Out an Investigation Major Projects: - Bone sample analysis - Gravesite Excavation	SEP - Asking Questions - Constructing Arguments Based on Evidence - Using Mathematics and Computational Thinking - Analyzing and Interpreting Data - Planning and Carrying Out an Investigation Major Projects: - Crime Scene/Death Investigation Culminating Project
	- SWD/504 – Accommodations Provided - ELL –	- SWD/504 – Accommodations Provided - ELL –	- SWD/504 – Accommodations Provided - ELL – Reading &	- SWD/504 – Accommodations Provided - ELL –	- SWD/504 – Accommodations Provided - ELL –	- SWD/504 – Accommodations Provided - ELL –	- SWD/504 – Accommodations Provided - ELL – Reading & Vocabulary	- SWD/504 – Accommodations Provided - ELL –	- SWD/504 – Accommodations Provided - ELL – Reading & Vocabulary	- SWD/504 – Accommodations Provided - ELL –	- SWD/504 – Accommodations Provided - ELL –

Level Specific Differentia tion	Reading & Vocabulary Support ● Intervention Support ● Extensions – Enrichment Tasks and Projects	Reading & Vocabulary Support ● Interventio n Support ● Extensions – Enrichment Tasks and Projects	Vocabulary Support ● Intervention Support ● Extensions – Enrichment Tasks and Projects	Reading & Vocabulary Support ● Intervention Support ● Extensions – Enrichment Tasks and Projects	Reading & Vocabulary Support ● Intervention Support ● Extensions – Enrichment Tasks and Projects	Reading & Vocabulary Support ● Intervention Support ● Extensions – Enrichment Tasks and Projects	Support ● Intervention Support ● Extensions – Enrichment Tasks and Projects	Reading & Vocabulary Support ● Interventio n Support ● Extensions – Enrichment Tasks and Projects	Support ● Intervention Support ● Extensions – Enrichment Tasks and Projects	Reading & Vocabulary Support ● Intervention Support ● Extensions – Enrichment Tasks and Projects	Reading & Vocabulary Support ● Intervention Support ● Extensions – Enrichment Tasks and Projects
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