Federal Way Public Schools

Standards-Based Education
Priority Standards

CTE Forensic Science

PS 1	Identify how the field of forensic science has evolved into the comprehensive science that it is today.
PS 2	Explain the limitations of a forensic investigation and cases that shaped the parameters under which a forensic investigation must occur.
PS 3	Demonstrate the proper processing and collecting of evidence that preserves the integrity and reliability of evidence and documentation of the original crime scene.
PS 4	Distinguish between the manner, cause, and mechanism of death.
PS 5	Determine the time of death using rigor mortis, algor mortis, and livor mortis measurements in a forensic investigation.
PS 6	Identify the human anatomy and explain how the process of an autopsy is used to identify the cause of death.
PS 7	Explain the succession of insect activity on human remains to establish an approximate time of death.
PS 8	Explain how crime scene characteristics, victimology, and offender characteristics are used in criminal profiling to assist in the capture of an offender.
PS 9	Apply the principles of fiber analysis to identify unknown fiber samples in a forensic investigation.
PS 10	Apply the principles of the analysis of glass samples in a forensic investigation to identify unknown samples of glass and interpretation of fracture patterns in glass to recreate the event(s) that caused the fracture.
PS 11	Explain how soil is used as evidence in a forensic investigation and apply techniques in the analysis of soil evidence.
PS 12	Demonstrate the skills to apply knowledge of the microscopic and macroscopic features of hair that enable hair to be used as biological evidence.
PS 13	Explain the formation of fingerprints and the individual minutiae patterns that are used as a basis of individual identification in fingerprint evidence.
PS 14	Apply physical & chemical development techniques to process, collect, and identify fingerprint evidence.
PS 15	Model the process used to design a scientific investigation to answer a question.
PS 16	Draw conclusions consistent with scientific knowledge and data.
PS 17	11-12.RST.1 Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account.
PS 18	11-12.RST.2 Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.
PS 19	11-12.RST.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11–12 texts and topics.
PS 20	11-12.RST.7 Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.
PS 21	11-12.WHST.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
PS 22	11-12.WHST.8 Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the specific task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation.