Federal Way Public Schools

Standards-Based Education
Priority Standards

CTE Aerospace Engineering

PS 1	Explain, separate, and gather information to create a solution for a problem.
PS 2	Generate, record, and develop preliminary ideas in an open forum.
PS 3	Identify, research, and compile ideas to report solutions to a problem.
PS 4	Identify criteria, constraints, and solutions to a given problem.
PS 5	Identify alternative ideas based upon criteria and constraints through generating refined ideas.
PS 6	Analyze, confirm, and create the best approach to solve a problem.
PS 7	Generate, develop, and explain ideas about the solutions to a problem.
PS 8	Construct and analyze a prototype from the working drawings so a solution can be tested.
PS 9	Design and test prototypes to gather performance data to evaluate the solution to the problem.
PS 10	Analyze, evaluate, and interpret possible new ideas to enhance product performance.
PS 11	Incorporating the design process procedures for the final solution to the problem.
PS 12	Analyzing final solution to a problem by communicating and interpreting data through a presenting process.
PS 13	Students understand the applications and implications of science and engineering in society.
PS 14	Use mathematical and computational thinking.
PS 15	Represent and interpret position, velocity, and acceleration accurately using diagrams, vectors, and graphs, and solve kinematic equations.
PS 16	Use Newton’s Laws to describe forces in one dimension.
PS 17	Use Newton’s Laws to describe forces in two dimensions.
PS 18	Use Newton's Law of Universal Gravitation and analyze objects undergoing uniform circular motion.
PS 19	Work, Energy, Power: Understand the definition of work, including when it is positive, negative, or zero and apply the work-energy theorem.
PS 20	Understand the electromagnetic spectrum and properties of light.
PS 21	Electrostatics: Understand electric charge and properties of electrostatics.
PS 22	Electric Circuits: Understand electric current and potential difference as they apply to electric circuits.
PS 23	Employability Skills.
PS 24	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 25	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 26	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 27	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 28	11-12.WHST.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
PS 29	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.