

CSTA Standards	Grades 9-10	Mission 1	Mission 2	Mission 3	Mission 4	Remix 1	Mission 5	Mission 6	Remix 2	Mission 7	Mission 8	Remix 3	Mission 9	Final Project
		(1) Computing Systems -	3A-CS-01 Explain how abstractions hide the underlying implementation details of computing systems embedded in everyday objects.											
	3A-CS-02 Compare levels of abstraction and interactions between application software, system software, and hardware layers.													
	3A-CS-03 Develop guidelines that convey systematic troubleshooting strategies that others can use to identify and fix errors.			X	X	X	X	X	X	X	X	X	X	X
(2) Networks & the Internet -	3A-NI-04 Evaluate the scalability and reliability of networks, by describing the relationship between routers, switches, servers, topology, and addressing.													
	3A-NI-05 Give examples to illustrate how sensitive data can be affected by malware and other attacks.													
	3A-NI-06 Recommend security measures to address various scenarios based on factors such as efficiency, feasibility, and ethical impacts.													
	3A-NI-07 Compare various security measures, considering tradeoffs between the usability and security of a computing system.													
	3A-NI-08 Explain tradeoffs when selecting and implementing cybersecurity recommendations.													
(3) Data & Analysis -	3A-DA-09 Translate between different bit representations of real-world phenomena, such as characters, numbers, and images.													
	3A-DA-10 Evaluate the tradeoffs in how data elements are organized and where data is stored.													
	3A-DA-11 Create interactive data visualizations using software tools to help others better understand real-world phenomena.													
	3A-DA-12 Create computational models that represent the relationships among different elements of data collected from a phenomenon or process.													
(4) Algorithms & Programming -	3A-AP-13 Create prototypes that use algorithms to solve computational problems by leveraging prior student knowledge and personal interests.			X	X	X	X	X	X	X	X	X	X	X
	3A-AP-14 Use lists to simplify solutions, generalizing computational problems instead of repeatedly using simple variables.							X	X	X	X	X	X	X

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	3A-IC-29 Explain the privacy concerns related to the collection and generation of data through automated processes that may not be evident to users.													
	3A-IC-30 Evaluate the social and economic implications of privacy in the context of safety, law, or ethics.													