West Virginia Technology and Computer Science

Computer Science: 9-12

Computer Science and Computational Thinking	1	Develop and apply criteria for evaluating a computer system for a given purpose. CS.9-12.1
	2	Explain how abstractions hide the underlying implementation details of computing systems embedded in everyday objects. CS.9-12.2
Networks and Cyber Infrastructure	3	Analyze reliable and safe communication methods to transmit information among computing devices over the network. CS.9-12.3
	4	Analyze the utilization of computers and networks. CS.9-12.4
Data and Information	5	Store, transmit, and manipulate data electronically. CS.9-12.5
	6	Use tools to graphically represent the data and information. CS.9-12.6
	7	Create computational models for simulating real-world system. CS.9-12.7
Programming and Algorithms	8	Organize and create a modular program. CS.9-12.8
	9	Compare the effectiveness of the algorithms. CS.9-12.9
	10	Create computer program(s) to solve specific problems relevant to various real-world topics both independently and collaboratively. CS.9-12.10
Impacts of Computing	11	Explain the national and global economic impact of cybercrime. CS.9-12.11
	12	Analyze the negative and positive impact of new technology socially and globally. CS.9-12.12
	13	Test and refine computational artifacts to reduce bias and equity deficits. CS.9-12.13
	14	Use tools and methods for collaborating on a project to increase connectivity of people in different cultures and career fields. CS.9-12.14