

Concept	Subconcept	Level 2 (Ages 11-14)	Course	Current Status
Computing Systems	Devices	2-CS-01 Recommend improvements to the design of computing devices, based on an analysis of how users interact with the devices. (P3.3)		Unmet
Computing Systems	Hardware & Software	2-CS-02 Design projects that combine hardware and software components to collect and exchange data. (P5.1)		Unmet
Computing Systems	Troubleshooting	2-CS-03 Systematically identify and fix problems with computing devices and their components. (P6.2)		Unmet
Networks & The Internet	Network Communication & Organization	2-NI-04 Model the role of protocols in transmitting data across networks and the Internet. (P4.4)	FCCS	Already Meeting
Networks & The Internet	Cybersecurity	2-NI-05 Explain how physical and digital security measures protect electronic information. (P7.2)	FCCS	Already Meeting
Networks & The Internet	Cybersecurity	2-NI-06 Apply multiple methods of encryption to model the secure transmission of information (P4.4)	FCCS	Progressing
Data & Analysis	Storage	2-DA-07 Represent data using multiple encoding schemes. (P4.0)	FCCS	Already Meeting
Data & Analysis	Collection, Visualization, & Transformation	2-DA-08 Collect data using computational tools and transform the data to make it more useful and reliable. (P6.3)	FOP	Already Meeting
Data & Analysis	Inference & Models	2-DA-09 Refine computational models based on the data they have generated. (P5.3, P4.4)		Unmet
Algorithms & Programming	Algorithms	2-AP-10 Use flowcharts and/or pseudocode to address complex problems as algorithms. (P4.4, P4.1)	FOP	Progressing
Algorithms & Programming	Algorithms	2-AP-10 Use flowcharts and/or pseudocode to address complex problems as algorithms. (P4.4, P4.1)	DSA	Already Meeting
Algorithms & Programming	Variables	2-AP-11 Create clearly named variables that represent different data types and perform operations on their values. (P5.1, P5.2)	FOP	Already Meeting
Algorithms & Programming	Control	2-AP-12 Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals. (P5.1, P5.2)	FOP	Already Meeting
Algorithms & Programming	Modularity	2-AP-13 Decompose problems and subproblems into parts to facilitate the design, implementation, and review of programs. (P3.2)	FOP	Already Meeting
Algorithms & Programming	Modularity	2-AP-14 Create procedures with parameters to organize code and make it easier to reuse. (P4.1, P4.3)	FOP	Already Meeting
Algorithms & Programming	Program Development	2-AP-15 Seek and incorporate feedback from team members and users to refine a solution that meets user needs. (P2.3, P1.1)	FOP	Already Meeting
Algorithms & Programming	Program Development	2-AP-16 Incorporate existing code, media, and libraries into original programs, and give attribution. (P4.2, P5.2, P7.3)	FOP	Already Meeting

Concept	Subconcept	Level 2 (Ages 11-14)	Course	Current Status
Algorithms & Programming	Program Development	2-AP-17 Systematically test and refine programs using a range of test cases. (P6.1)	FOP	Progressing
Algorithms & Programming	Program Development	2-AP-17 Systematically test and refine programs using a range of test cases. (P6.1)	DSA	Unmet
Algorithms & Programming	Program Development	2-AP-18 Distribute tasks and maintain a project timeline when collaboratively developing computational artifacts. (P2.2)		Unmet
Algorithms & Programming	Program Development	2-AP-19 Document programs in order to make them easier to follow, test, and debug. (P7.2)	FOP	Already Meeting
Impacts of Computing	Culture	2-IC-20 Compare tradeoffs associated with computing technologies that affect people's everyday activities and career options. (P7.2)	FCCS	Already Meeting
Impacts of Computing	Culture	2-IC-21 Discuss issues of bias and accessibility in the design of existing technologies. (P1.2)	TLP	Already Meeting
Impacts of Computing	Social Interactions	2-IC-22 Collaborate with many contributors through strategies such as crowdsourcing or surveys when creating a computational artifact. (P2.4, P5.2)	DSA	Already Meeting
Impacts of Computing	Safety, Law, & Ethics	2-IC-23 Describe tradeoffs between allowing information to be public and keeping information private and secure. (P7.2)	FCCS	Already Meeting