Summary of Foundation Computer Science Content

Encompasses all content		Applies to each topic		
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Dispositions	Impacts and Ethics	Human-Centered Design	Inclusive Collaboration	Computational Thinking
Algorithms	 Define algorithm, including traditional and AI/ML algorithms Compose, modify, and interpret algorithms Decompose a problem into multiple subproblems Evaluate aspects of different algorithms 			
Programming	 Convert an algorithm to code Modify a program Articulate whether a program solves a given problem Test and debug a program systematically 			
Data and Analysis	 Describe, at a high level, the role of data in AI/ML applications Prepare (e.g., normalize, transform, clean) data Trace how data moves through a program Evaluate data visualizations Work with large data sets 			
िर्मित Computing Systems and Security	 Identify various types of hardware and software Describe why cybersecurity is important Explain what networks (including the Internet) are and how they work Apply troubleshooting strategies to identify and fix problems Use documentation and other resources to guide tasks 			
Preparing for the Future	 Identify pathways and careers that involve computing Apply computing concepts to other academic disciplines Examine how emerging technologies are impacting a variety of practices Evaluate the use of emerging technologies Plan how an emerging technology could meet a need 			

