Tennessee Computer Science

Grade 4

Foundational Concepts 4.FC	1	**Demonstrate an appropriate level of proficiency in performing tasks using a range of digital devices.** 4.FC.1
	2	**Use age-appropriate online tools and resources (e.g., learning management systems, grade and assignment record, tutorial, assessment, web browser).** 4.FC.2
	3	**Create a simple digital model of a system and explain what the model shows and does not show.** 4.FC.3
Algorithmic Thinking 4.AT	1	**Examine logical reasoning to predict outcomes of an algorithm.** 4.AT.1
	2	**Use flowcharts to create a plan or algorithm.** 4.AT.2
	3	**Construct a basic system of numbers, letters, or symbols to represent information as a cipher.** 4.AT.3
Data Analysis 4.DA	1	**Collect, organize, analyze, and interpret data to identify solutions and/or make informed decisions.** 4.DA.1
	2	**Gather data to answer a question using a variety of computing and data visualization methods.** 4.DA.2
Networking and the Internet 4.NI	1	**Identify appropriate and inappropriate uses of communication technology and discuss the permanence of actions in the digital world.** 4.NI.1
	2	**Conduct advanced keyword searches to produce valid, appropriate results and evaluate results for accuracy, relevance, and appropriateness.** 4.NI.2
Programming Concepts 4.PC	1	**Test and debug a given program in a block-based visual programming environment using arithmetic operators, conditionals, and repetition in programs, in collaboration with others.** 4.PC.1
Impacts of Computing 4.IC	1	**Identify laws and tools which help ensure that users of varying abilities can access electronic and information technology.** 4.IC.1
	2	**Explain how hardware and applications can enable everyone, including people with disabilities, to do things they could not do otherwise.** 4.IC.2