

New Horizons Regional Education Centers (C&T)
Pacing Guide (Fall 2020: Q1 – 25 % of overall content)

Program: Programming (6640)

Teacher: Sridhar Chinnabhandar

Topic/Unit	Virginia State Competencies	Date Material will be covered	Total Class Days	% of Curriculum
Programming Development Environment for Java The First Java Program Primitive Variables Arithmetic and Relational Operators User Input Syntax Errors Executable Files	48 Design a program, using an algorithm, pseudocode, a flowchart, and/or a decision table. 49. Code the program, using a programming language. 50. Test the program with sample data. 51. Debug the program. 52. Document the program. 53. Describe maintenance procedures. 54. Identify syntax errors of a given programming 58. Code an application that uses mathematical operations and built-in functions. 59. Write a program that uses variables and constants. 60. Write a program that accepts user input. 82. Explain how to locate resources and references to aid program development.	09/08 through 09/18	7	2
Decision Statements Loops – single and nested Formatted Output	19. Apply mathematical skills to job-specific tasks. 57. Code a program that will produce formatted output. 63. Write a program that uses conditional structures. 64. Write a program that uses looping structures. 65. Write a program that uses counters and accumulators. 66. Identify the purpose of an executable file.	09/21 through 10/02	8	7

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Methods	62 Write a modular program that uses functions or methods.	10/05 through 10/16	8	3
Arrays	61 Write a program that uses arrays.	10/19 through 11/02	9	3
Congressional App Challenge	33. Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.	09/08 through 10/19	28	10
Course Competencies			Total	25
Workplace Readiness Competencies	1 Demonstrate creativity and innovation. 2 Demonstrate critical thinking and problem solving. 3 Demonstrate initiative and self-direction. 4 Demonstrate integrity. 5 Demonstrate work ethic. 6 Demonstrate conflict-resolution skills. 7 Demonstrate listening and speaking skills. 8 Demonstrate respect for diversity. 9 Demonstrate customer service skills. 10 Collaborate with team members. 11 Demonstrate big-picture thinking. 13 Demonstrate continuous learning and adaptability. 14 Manage time and resources. 15 Demonstrate information-literacy skills. 16 Demonstrate an understanding of information security.	09/08 through 11/02	40	25

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	<p>17 Maintain working knowledge of current information technology (IT) systems.</p> <p>18 Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.</p> <p>19 Apply mathematical skills to job-specific tasks.</p> <p>20 Demonstrate professionalism.</p>			
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