

Alabama CS Standards Alignment with Python with Robots Curriculum

	Unit 1	Unit 2	Unit 3	Unit 4
Computational Thinker				
7.AB.1 Create a function to simplify a task				
7.AL.2 Create complex pseudocode using conditionals and Boolean statements.				
7.AL.3 Create algorithms that demonstrate sequencing, selection or iteration.				
7.AL.4 Design a complex algorithm that contains sequencing, selection or iteration.				
7.PD.5 Solve a complex problem using computational thinking.				
7.PD.6 Create and organize algorithms in order to automate a process efficiently.				
7.PD.7 Create a program that updates the value of a variable in the program.				
7.PD.8 Formulate a narrative for each step of a process and its intended result, given pseudocode or code.				
Citizen of a Digital Culture				
7.SPS.9 Identify common methods of securing data.				
7.LEP.10 Explain social engineering, including countermeasures, and its impact on a digital society				
7.LEP.11 Demonstrate positive, safe, legal, and ethical habits when creating and sharing digital content and identify the consequences of failing to act responsibly.				
7.DI.12 Discuss the impact of data permanence on digital identity including best practices to protect personal digital footprint.				
7.IC.13 Compare and contrast information available locally and globally.				
7.IC.14 Discuss current events related to emerging technologies in computing and the effects such events have on individuals and the global society.				
7.IC.15 Discuss unique perspectives and needs of a global culture when developing computational artifacts, including options for accessibility for all users.				
Global Collaborator				
7.CC.16 Construct content designed for specific audiences through an appropriate medium.				
7.DT.17 Publish content to be available for external feedback.				
7.DT.18 Type 35 words per minute with 95% accuracy using appropriate keyboarding techniques.				
7.SI.19 Discuss the benefits and limitations of censorship.				
7.DA.20 Evaluate the validity and accuracy of a data set.				
Computing Analyst				
7.DA.21 Compare common transfer protocols.				
7.DA.22 Compare data storage structures.				
7.SY.23 Demonstrate the use of a variety of digital devices individually and collaboratively to collect, analyze, and present information for content-related problems.				
7.SY.24 Diagram a network given a specific setup or need.				
7.SY.25 List common methods of system cybersecurity.				
7.MS.26 Categorize models based on the most appropriate representation of various systems.				
7.MS.27 Identify data needed to create a model or simulation of a given event.				
Innovative Designer				
7.HCP.28 Classify types of assistive technologies.				
7.HCP.29 Compare and contrast human intelligence and artificial intelligence.				
7.DE.30 Apply the problem-solving process to solve real-world problems.				