PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Course Number: Course Prerequisites:	Computer Science Discoveries 00500 None			
Course Description:	<i>Computer Science Discoveries</i> is an introductory computer science course that empowers students to create authentic artifacts and to engage with computer science as a medium for creativity, communication, problem solving, and enjoyment. The two coding languages that are explored include JavaScript and HTML.			
Suggested Grade Level: Grade 6				
Length of Course:	One Semester			
Units of Credit:	.5			
PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certifications:				
K-12 Business Information Technology – CSPG 33 To find the CSPG information, go to <u>https://www.education.pa.gov/Educators/Certification/Staffing%20Guidelines/Pages/default.aspx</u>				
Certification verified by the office of Curriculum, Instruction, and Assessment: Xes DNo				

WCSD STUDENT DATA SYSTEM INFORMATION

Course Level: Mark Types:	Academic Check all that apply.
	\boxtimes F – Final Average \boxtimes MP – Marking Period \square EXM – Final Exam
GPA Туре :	□ GPAEL-GPA Elementary □ GPAML-GPA for Middle Level □ NHS-National Honor Society □ UGPA-Non-Weighted Grade Point Average □ GPA-Weighted Grade Point Average

State Course Code: 10011

To find the State Course Code, go to https://nces.ed.gov/forum/sced.asp, download the Excel file for SCED, click on SCED 6.0 tab, and chose the correct code that corresponds with the course.

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TEXTBOOKS AND SUPPLEMENTAL MATERIALS

Board Approved Textbooks, Software, and Materials: Title: Publisher: ISBN #: Copyright Date: WCSD Board Approval Date:

Supplemental Materials: Computer Science Discoveries Curriculum from Code.org website, Spheros, iPad Pros, Hummingbird Kits

Curriculum Document

WCSD Board Approval:	
Date Finalized:	12/5/2019
Date Approved:	1/13/2020
Implementation Year:	2020-2021

SPECIAL EDUCATION, 504, and GIFTED REQUIREMENTS

The teacher shall make appropriate modifications to instruction and assessment based on a student's Individual Education Plan (IEP), Chapter 15 Section 504 Plan (504), and/or Gifted Individual Education Plan (GIEP).

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SCOPE AND SEQUENCE OF CONTENT, CONCEPTS, AND SKILLS

Performance Indicator	PA Core Standard and/or Eligible Content	Month Taught and Assessed for Mastery
Discuss and analyze problem solving process.	3B-AP-24	September January
Explore and analyze the computer and central process unit.	1B-CS-02	September January
Discuss the process of the input and outputs of the computer.	1B-CS-01	September February
Explore Apps and storage solutions.	3A-AP-13	September February
Plan, design, and present an App.	3A-AP-13, 3A- AP-22	September February
Explore websites and analyze how they are formatted.	3B-AP-19	October February
Communicate with HTML language.	2-AP-14	October March
Create and use the language of HTML.	2-AP-14, 3B-AP- 19	October March
Develop debugging skills within the HTML language.	1B-AP-15	October March
Create and use the Styling Elements and Text with CSS.		October March
Investigate sources and search engines.	1B-IC-21	November March
Present and share creation of HTML Website.	3B-AP-24	November April
Investigate programming entertainment such as game design.	1B-AP-12	November April
Create variables and spirtes with JavaScript.	2-AP-11, 3A-AP- 14	November April
Analyze Booleans and conditionals.	1B-AP-10	December May
Create an interactive greeting card using JavaScript.	3B-AP-24	December May
Investigate the game design process.	3A-AP-18	January May
Design an interactive game using JavaScript.	3A-AP-18, 1B- AP-12	January

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ASSESSMENTS

PSSA Academic Standards, Assessment Anchors, and Eligible Content: The teacher must be knowledgeable of the PDE Academic Standards, Assessment Anchors, and Eligible Content and incorporate them regularly into planned instruction.

Formative Assessments: The teacher will utilize a variety of assessment methods to conduct in-process evaluations of student learning.

Effective formative assessments for this course include: Journal Question Responses, Sharing Projects using online platform, Progress Checks of Projects

Summative Assessments: The teacher will utilize a variety of assessment methods to evaluate student learning at the end of an instructional task, lesson, and/or unit.

Effective summative assessments for this course include: Creation of an App Project (Unit 1), HTML with CSS Styling Website (Unit 2), Interactive Game Design (Unit 3), quizzes, and tests.