

CS JR. COURSE F

General Information

Description

The course begins by looking at how users make choices in the apps they use. Students then learn to make a variety of Sprite Lab apps that also offer choices for the user. In the later lessons in the course, students will learn more advanced concepts, including variables and “for” loops. Students are given greater autonomy and more choices throughout this course. By the end of the course, students will have created interactive projects and artwork to share with their friends and family. The extended project will allow students to use their skill and knowledge they learned making physical objects using the revolutionary micro:bit microcontroller board.

Expectations and Goals

Course C (Code.org)

- Digital Citizenship
- Variables
- Data
- For Loops
- Sprites

Micro:bit (MakeCode)

- Understand the value of iteration/Looping in programming
- Use ‘repeat’, ‘while’, and ‘for’
- Apply the knowledge as an integral part of the program

Code.org (V.2021)

Sample Curriculum

Concept Chunk	Topic
Sprites	Introducing Sprite Lab
	Making Sprites
	Sprites in Action
	Mini-Project: Virtual Pet
Digital Citizenship	The Power of Words
Variables	Blank Space Stories
	Text and Prompts
	Mini-Project: User Input Programs
	Drawing with Loops
	Programming with the Bee
	Variables with the Bee
For Loops	For Loop Fun

	For Loops with Bee
	For Loops with Artist
Data and Simulations	Simulating Experiments
	Outbreak
	AI For Oceans
	The Internet
Project	End of Course Project

Extended Project: “Micro:bit’s Project: Make a scorekeeper”

Sample Curriculum

Concept Chunk	Topic
Introduction	Variables in daily life
Unplugged Activity	Rock Paper Scissors scorekeeping
Micro:bit Activity	Make a game scorekeeper
Project	Make a scorekeeper
Assessment (Judging Rubric)	Project Presentation and grading the project

Note: this outline and schedule are subject to modification without prior notice.

Perfect for 10-12 years old (Require some prior coding experience)

Schedule

Class Start	Day	Time	Max.Student/Class
4 th Sept 2021	Every Saturday	10:00 am - 11:00am	12
4 th Sept 2021	Every Saturday	2:00pm - 3:00 pm	12

Course Duration: 7 weeks

The Class is limited to 12 students or less, enroll now to secure your seat.

Call us now:

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