

CODEMAKERS

617-826-5191

helloworld@codemakers.us

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Curriculum Overview

Grades 6-8

Level 1

Introduction to Strings and Variables

Introduction to Loops

Conditional Statements

Python practice with Misty the Robot

Python programming practice games (in-workshop or home)

- Quacking Ducks
- Roll the Dice
- Scrabble Scores
- Wizard Duel

Level 2

Introduction to List Comprehensions

Introduction to Standard Library Functions

Python practice with Misty the Robot

Python programming practice games (in-workshop or home)

- Wizard Duel with Functions
- Ping Pong Weights
- Planet Weights
- Inventory and Crafting

Level 3

Introduction to Objects and Classes

Python practice with Misty the Robot

Python programming practice games (in-workshop or home)

- Tic-Tac-Toe
- City Inheritance
- Vehicle Inheritance

Level 4

Introduction to Efficiency

Python practice with Marty the Robot

Python programming practice games (in-workshop or home)

- Selection Sort
- Binary Search
- Character Trees
- Binary Search Trees