

# CODEMAKERS

4 Water Street

Arlington, MA 02476

Phone: 617-826-5191 | Email: [helloworld@codemakers.us](mailto:helloworld@codemakers.us)

## CODEMAKERS

### Curriculum Overview

#### Grades 6-8

##### Level 1

Introduction to Strings and Variables

Introduction to Loops

Introduction to Conditional Statements

Python practice with Misty the Robot

Python programming practice games (in-workshop or at 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 at 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 at home)

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

##### Level 4

Introduction to Efficiency

Python practice with Misty the Robot

Python programming practice games (in-workshop or at home)

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