Computer Science Beginner Course Overview 16 hs





Course Overview

Students will create programs with sequencing, loops, and events. They will translate their initials into binary, investigate problem-solving techniques, and develop strategies for building positive communities both online and off. By the end of the course, students will create interactive games that they can share. Each concept in this course is taught from the beginning, graduating toward experiences that allow for growth and creativity to provide all students a rich and novel programming experience.

Core concepts:

- Digital Citizenship
- Sequencing
- Loops
- Events
- Binary
- Data



Elon Musk CEO, SpaceX and Tesla

"I bought my first computer when I was 10 and sold my first commercial program at 12.



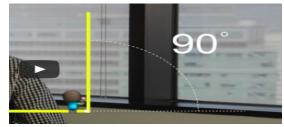
Putting a STOP to Online Meanness



Password Tips to Remember



Develop Sequential Algorithms using Angry Birds

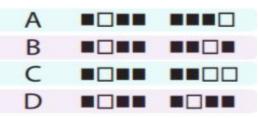


Creating Art using Code



Harvesting Crops with Loops





Introduction to **Binary** Language

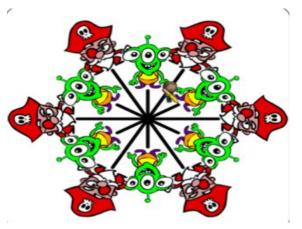




Loops with Rey and BB-8



Creating MineCraft game



Create Sticker Art with Loops



Build Flappy Game using Events



Build Chase Game with Events





End of Course Project

Picturing Data

Course Details

- Start dates and schedules will be coordinated directly with student.
- Each class has a size group of 4 students per group.
- **Course Duration:** 8 monthly classes, 1 hour duration each class
- Includes: Home access for extra practice
- Total Course Duration: 16 hours (2 months course) - Completion of Beginner Level and into Intermediate Level

