

**Course Overview:**

Info Tech is designed to improve and expand on block coding abilities through the use of Google CS First and Scratch. Computational Thinking and robotics are also taught during this course.

**Standards:**

**1B-AP-08** Model daily processes by creating and following algorithms (sets of step-by-step instructions) to complete tasks

**1B-AP-11** Decompose (break down) the steps needed to solve a problem into a precise sequence of instructions.

**1B-AP-12** Modify, remix, or incorporate portions of an existing program into one's own work, to develop something new or add more advanced features.

**1B-AP-15** Test and debug (identify and fix errors) a program or algorithm to ensure it runs as intended.

**2-AP-10** Use flowcharts and/or pseudocode to address complex problems as algorithms.

**Course Materials:**

- Code.org
- Google CS First and Scratch
- Google Programs
- Sphero Robots
- Laptop and internet access

**Course Outline:**

**Week 1**

- Google Slides and Hyperlinking
- All About Me Project

**Week 2-3**

- Introduction to Scratch
- Animate a Name
- Characterization
- Chase Game
- Ping Pong Game
- Catch Game
- Virtual Pet

**Week 4-5**

- Introduction to Sphero Robots
- Computational Thinking Stations
- Robot Challenges