Introduction to Digital Technology

SHORT TERM PROJECT

Course Title: Introduction to Digital Technology

Project Name: Coding with CS First Google

Time: 90 Minutes

Objectives:

- Events-Students will refine programs by changing data and using event blocks to achieve a desired action.
- Sequencing-Students will complete complex programming tasks using block-based program flows to sequence the desired end result.
- Loops-Students produce an action based on two or more conditions in a logical relationship by combining multiple Control blocks.

CSTA Standards:

2-DA-09: Refine computational models based on the data they have generated

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

2-AP-12: Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.

Materials Needed:

- Computers
- Headphones
- Google CS First class code

Resources needed:

Internet

Interdisciplinary Involvement:

• Art/Algebra

Tasks:

- 1. Students will sign in at https://csfirst.withgoogle.com/s/en/home
- 2. Watch instructional video for each activity.
- 3. Use Scratch to complete unit coding activity
- 4. Test coding by clicking the start button.
- 5. Correct errors and retest.
- 6. Take survey

Student Work Samples











