



Coding & Innovative Technology 1 CIT 1 — Coding 1



Why Take Coding 1?

Coding 1, a prerequisite to Coding 2, is a business elective that introduces students to coding and programming through hands-on projects utilizing block-based coding. Students learn:

- * Analytical and problem-solving skills
- * Introductory coding concepts thru a variety of applications and interactive web sites
- * How to use computational thinking to develop programs by dragging and dropping blocks.
- How to collaborate on small group projects
- * How to challenge their creative, artistic, writing and mathematical skills in a technological environment

What You Learn ...

A Semester Long Class where students will learn to:

- * Apply coding principles, concepts, and practices
- * Syntax code without having to memorize syntax to write code
- * Practice and apply digital literacy
- * Use digital tools and resources
- * Explore careers in coding
- * Understand the fundamentals of computer programming
- * Design programs, such as games, in a fun and competitive atmosphere
- Develop and edit a web page using HTML/CSS

What We Do ...





Portrait of a Graduate (POG



















Coding & Innovative Technology 2 CIT 2 — Coding 2

(8th Grade only)



Why Take Coding 2?

In Coding 2, students who complete the Coding 1 prerequisite business class will continue to learn and refine coding concepts. Students will create programs using:

- * Text-based coding language Python
- * Interactive animation and gaming
- * Their critical thinking and problemsolving skills
- * The fundamentals of computer programming
- * Their creative, artistic, writing and mathematical skills in a technological environment
- * Their digital ethical and literacy skills

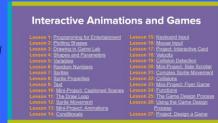
What You Learn ...

Utilizing Code.org and the Carnegie Mellon University (CMU) Computer Science(CS) Academy, this Semester Long Class covers:

- * Writing instructions and understanding the syntax of a text-based programming language
- * Modularity, algorithms and control
- * Position and movement
- * Variable/storing information
- * Exploring careers and workplace readiness skills in coding
- * Designing programs in a fun and competitive atmosphere
- * Collaborating in small group

What We Do ...













Mr. Cox

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Thank you for supporting the Computer Solutions, Coding 1, Coding 2 and

Career Investigations business electives and taking theses courses with me!

Liberty Middle School



Schoology

- * Weekly folders feature the schedule and all assignments
- * Resource folder contains course syllabus and other relevant material **SIS**
- * A minimum of 8 graded assignments per quarter
- * A grade may reflect multiple assignments which will be a cummulative grade covering a learned unit (i.e., MS Word)
- Schoology assignments are captured in SIS
- * Grading (see syllabus in Resource folder of Schoology for details)
 - Independent (Homework) 0%
 - Formative 30%
 - **Summative 70%**

Comprehensive Focus of Courses

- * Skills learned in these courses supplement lessons students learn in course subjects: History, Reading/Writing, Math, Science
- * Problem solving (critical thinking) and creative thinking
- * Collaboration (working with others), Integrity and Respect
- Listening and following step-by-step directions
- * Patience and Resilience (It's ok to Make Mistakes, as long as you Learn from Them and Bounce Back!)