

Unit 2 - Intro to Coding (How to Speak to a Computer)

Date	Due	In Class
Wed, 9/3	ID a computing innovation that mattered to you AND the input, process, output, and storage that it uses	2.1 Your Flowchart - Building Blocks of Algorithms What is sequence, selection, and iteration?
Thu, 9/4	ID your own examples of sequence, selection, and iteration	Intro Blown to Bits 2.1 Your Flowchart - How to take screen shots - Intro Flowchart-related HW (We will do the first one together.)
Fri, 9/5	Finish Flowchart	2.1 Your Flowchart - Peer Review - Intro Flowchart-related HW (We will do the first one together.)
Mon, 9/8	Flowchart-related HW	Intro Vocab Slide Deck, Runestone Login 2.2 I Have a Dream, parts 1 and 2 - Get App Inventor set up on phone - Our first app in App Inventor! - Featuring buttons, labels, and audio - Vocab: Boolean Expression, logic error
Tue, 9/9		Finish I Have a Dream, parts 1 and 2
Wed, 9/10	Finish programming part for I Have a Dream part 2	Wrap up I Have a Dream, part 2 Intro to Self Check & Reflection Questions Sentence starters
Thu, 9/11	Complete 2.2 Self Check & Reflection Questions You read pages 1-7 in Blown to Bits Ch 1 and answered related questions	2.3 Seeing Algorithmic Building Blocks in Code - Sequence, Selection, Iteration - Code to show examples of each
Fri, 9/12	You read pages 8-17 in Blown to Bits Ch 1 and answered related questions	2.4a Boolean Expressions Joining DeltaMath
Mon, 9/15	Blown to Bits, Chapter 1 Questions	Go over solutions to Blown to Bits 2.4b Boolean Expressions, continued Double checking with Friday Begin Boolean Expressions on Delta Math
Tue, 9/16	Boolean Expressions on Delta Math	2.4b Boolean Expressions in AppInventor Begin 2.4c QC 2.5 Connections - What is an Abstraction? - Abstraction in I Have a Dream
Wed 9/17	2.4c Boolean Expressions QC 2.5 Abstractions HW	2.6a Conversions (Decimal/Binary) What is a decimal number?

		• What is a binary number? • Counting forward in binary • Converting decimal to binary
Thu 9/18	2.6a homework on paper	2.6b Conversions (Decimal/Binary, continued) • Q&A on HW • Converting binary to decimal • Some binary-related questions ◦ How many numbers can be stored given a certain number of bits? ◦ What is the largest number that can be stored given a certain number of bits? • Time to start HW
Fri, 9/19	2.6b homework in Google Classroom	2.6c Conversions (Decimal/Binary/Hexadecimal) • Q&A on HW • Practice
Mon 9/22	Conversions Practice: • Worksheet (printed) • DeltaMath	Go over DeltaMath 2.6 Binary QC - one attempt Complete AP Classroom Questions Friendly Binary Competition
Tue 9/23	No School - Rosh Hashanah	
Wed 9/24		Delta Math - conditionals and variables, tracing
Thu 9/25		2.7 Rock, Paper Scissors Lab
Fri 9/26	Vocabulary Slides	2.7 Rock Paper Scissors Lab (should be able to complete HW in class)
Mon 9/29	2.7 RPS HW	Go over 2.7 RPS HW Unit 2 Test Review
Tue 9/30*	Study	Unit 2 Test

Sites that will help us:

- AP Classroom (myap.collegeboard.org/login) - this site is created by The College Board to provide practice problems for you.
 - App Inventor (ai2.appinventor.mit.edu/) - this is our development environment, or where we will go to create code.
 - Blown to Bits (bitsbook.com) - our textbook for this course. Most of the time, you will be given links to the section of this book that is related to the unit we are learning.
 - CSP Curriculum (runestone.academy/runestone/books/published/mobilecsp/index.html) - We will use this site for resources about how to code.
 - Google Classroom (classroom.google.com) - We will use Google Classroom to manage class surveys, hand in work that does not require anything "fancy" to run like an image, document, or spreadsheet.
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