

Emily Bricker, Josh Doran, Phil Freeman

### Our Team







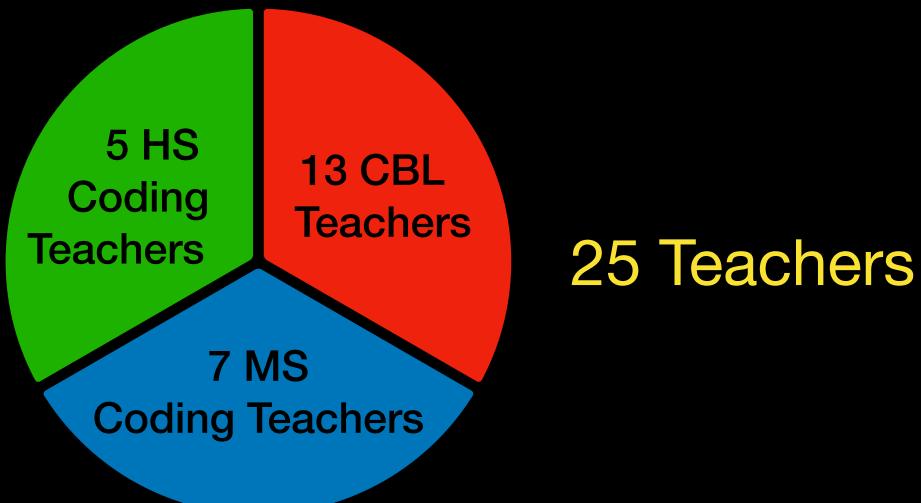


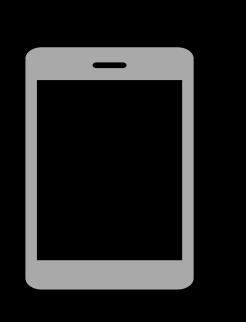


#### Phillip Freeman

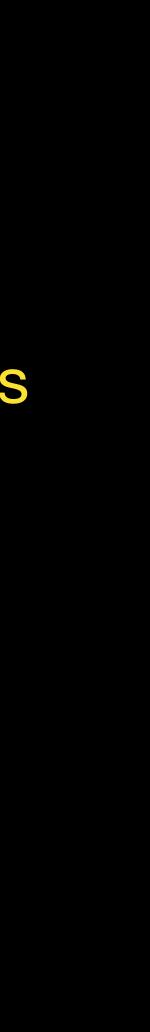
### Support System Apple Ambassadors

- Emily Bricker Middle School Math Teacher Apple Ambassador
- Josh Doran
  SWCSD Technology Liaison
  Apple Ambassador
- Phill Freeman High School Coding Teacher Apple Ambassador

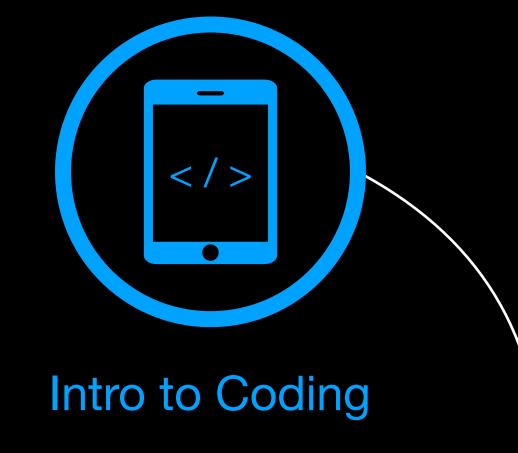




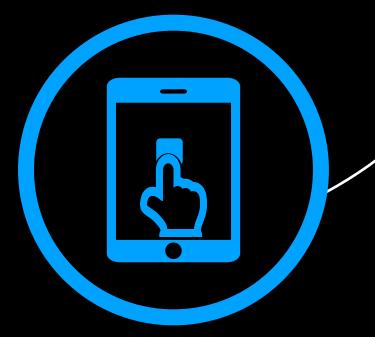




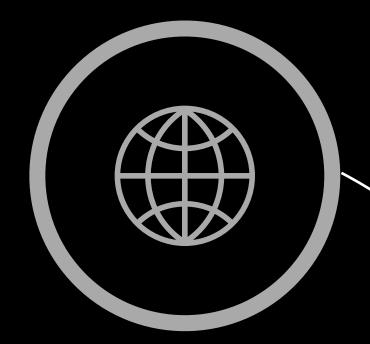
### How we started.. Now Offering Interactive Media Design as Well



#### Middle School

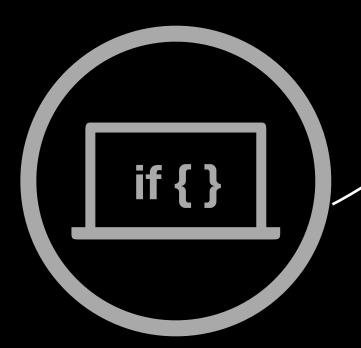


Intro to App Development



Intro to Tech & Network

#### **High School**



Programming Fundamentals & Programming 2.0

### High School CTE

2-Year Junior/Senior

#### All Levels

Various Subjects



App and Simulation Development



Challenge Based Learning

## Curriculum

- Swift Playgrounds
  - Everyone Can Code Puzzles
  - Get Started with Apps
  - Keep Going with Apps
  - Sphero EDU & MeBots
  - Everyone Can Create ightarrow
- Xcode / MobileMakersEDU
  - Develop in Swift
- **CBL** Framework
- **Teacher Creativity**





Goal: Use a for loop to repeat a sequence of commands.

To break down coding tasks, you wrote functions for repeated patterns. Now you'll call one function multiple times using a loop. With a loop, you write your code once and enter the number of times to repeat it.

In this puzzle, there's a gem in the same position in each row. You'll collect the gems by following the same pattern multiple times. This is the perfect place for a loop!

1 Enter the solution for one row inside the curly braces.

for i i

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Vsing Loops

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2 Decide how many times to repeat the loop.

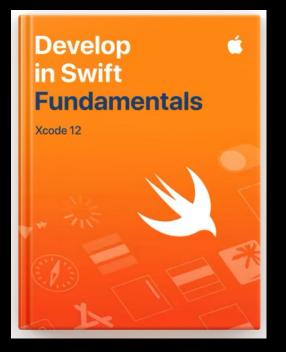
3 Select the number placeholder and specify the number of repetitions.

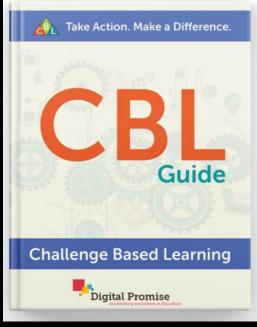
n	1	•••	•	number	{
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# Swift. A powerful open language that lets everyone build amazing apps.

## Swift





Swift is easy to use and open source, so anyone with an idea can create something incredible.



## Learn to Code 1

Commands

Functions

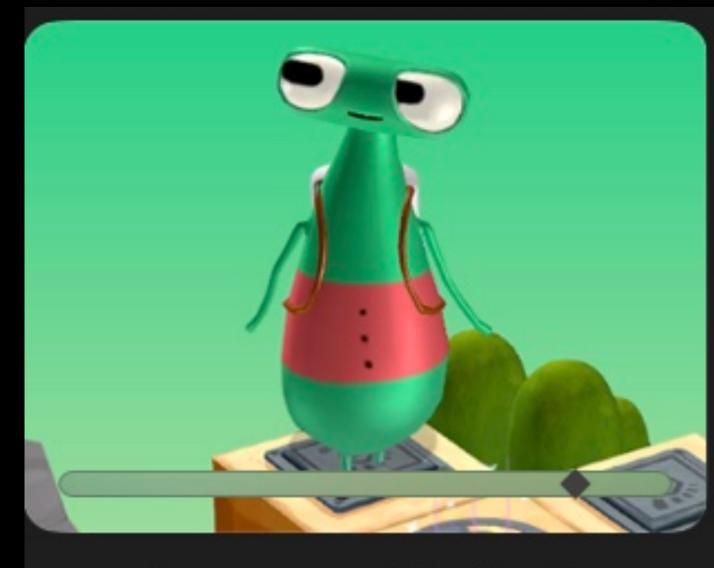
For Loops

**Conditional Code** 

CodeLogical Operators

While Loops

Algorithms



### Learn to Code 2 Learn to Code 2

Variables

Types

Initialization

#### Parameters

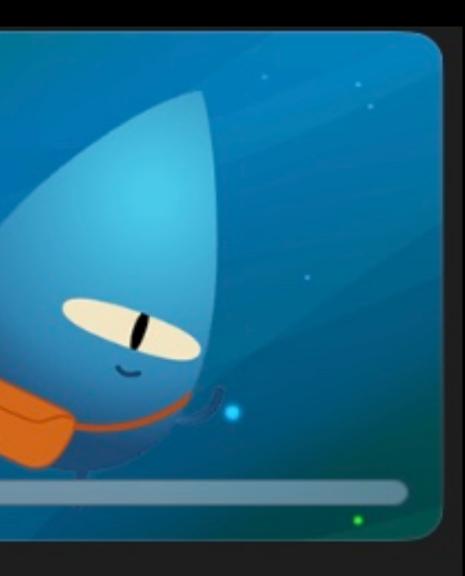
World Building

Arrays



Coordinates

**Touch Events** 



## Blu's Adventure Learn to Code 3

**Events Handlers** 

Finale

## Curriculum

#### Apple Books Preview

### Develop in Swift Fundamentals

Xcode 13

#### Develop in Swift Develop in Swift Fundamentals Xcode 13

**Apple Education** 

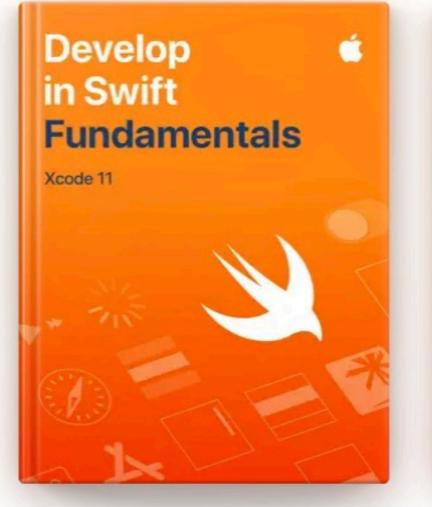
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★★★★★ 4.3 • 78 Ratings

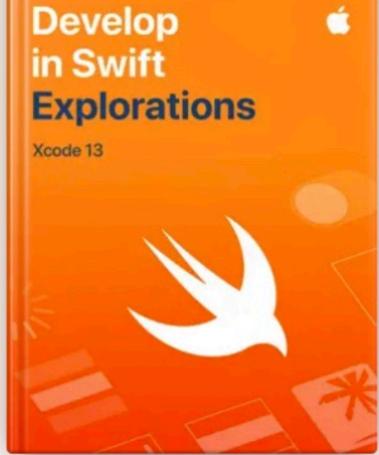
View in Apple Books ↗

## Curriculum

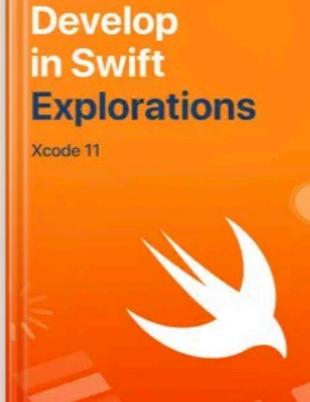
#### Other Books in This Series >



Develop in Swift Fundamentals 2020



Develop in Swift Explorations 2021



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Develop in Swift Explorations 2020



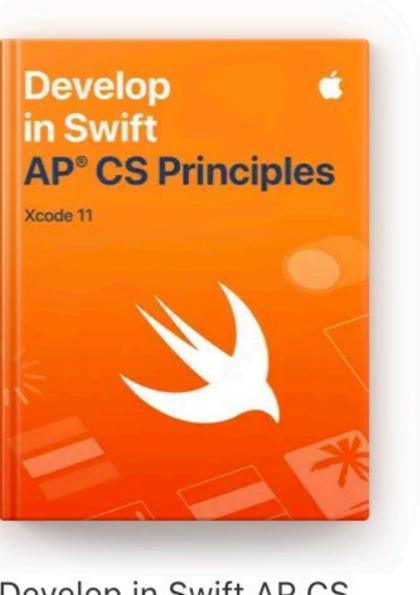
#### Develop in Swift Fundamentals 2021



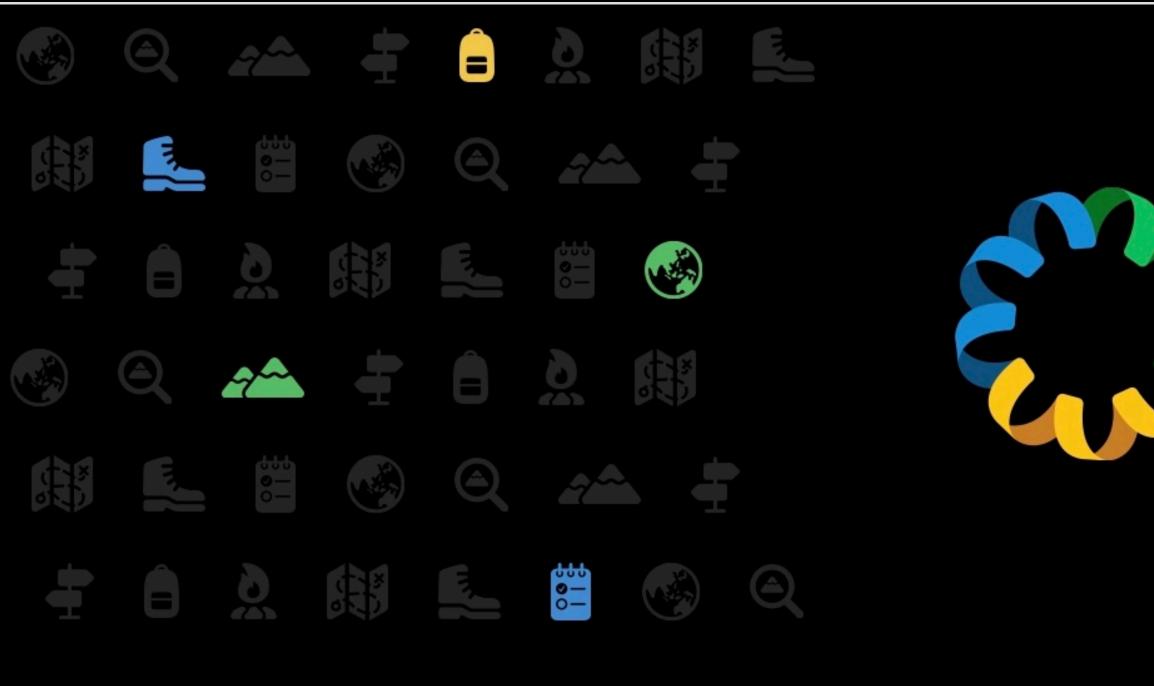


Develop in Swift Data Collections 2021

### in Swift Xcode 11



Develop in Swift AP CS Principles 2020



# Challenge Based Learning

Challenge Based Learning, or CBL, is a framework created by Apple to leverage technology in meaningful ways and make learning relevant. By design, CBL is a flexible framework that empowers learners to co-own and co-author learning experiences. CBL provides a simple way for anyone to address personal, community, and global challenges while acquiring content knowledge in areas such as literacy, math, science, technology, and the arts.





## Challenge Based Learning







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CBL: Document, Reflect, and Share

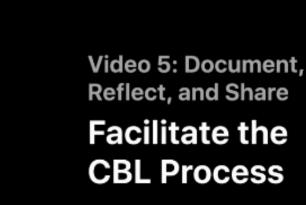
Video 2: Engage **Create Your Own Challenge** 

**CBL:** Engage



Video 3: Investigate Participate in a Challenge

**CBL**: Investigate



## Challenge Based Learning



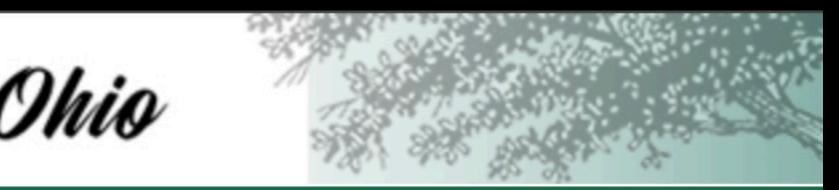




Call for New Business City Council

May 20th, 2024 7:41 pm

42:17





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1x

CC

## Challenges

with some knowledge about coding?

students in the classroom?

How do you have fun and learn at the same time?

- What do you do if a student comes to you
- How can I meet all of the needs of the



## All students passed the Ohio End of Course state test for Programming. Programming 145060

## State lesting **WebXam**





### Thank You! Questions?

Connect with us?

emily.bricker@swcsd.us joshua.doran@swcsd.us phillip.freeman@swcsd.us