Introduction

LO: IWBAT to use P5-JS to create my very own first program.

WARM UP:

Play a game of Tic-Tac-Toe with a partner next to you.

- What are the rules of the game?
- What parts of the game are needed?
- How do you determine the winner?

Unit Plan

Game Based

By the end of this unit, you will be able to create a game like Tic-Tac-Toe on your device.

P5-JS

We will be programming in Javascript with an online editor known as P5-JS.

P5-JS Setup

01
Sign Up
Click Sign up on top right corner

02
Login
Click Login with Google

03
Google
Choose your School Google account o log in with

04
Title
Click the pen button next to the title and change the title to "Introduction"

05
Save
Click file and then save.

06
Questions
Ask any questions if you have issues setting this up.

Hello World

One of the very first programs that programmers create is a printout of "Hello, World!"

We will do just that in Javascript.

1. Delete all the current code on the screen.
2. Type in the following:
   a. document.write('Hello, World!');
3. You should see a line of text that says "Hello, World!"
4. Congrats! You have created your 1st program

Comments

One of the best practices in coding is commenting your code, so that you and others can read very quickly what those lines of code do.

To do so, use "//"

Please comment out your code for "Hello, World!"

```
// the hello world program
document.write('Hello, World!');
```

Variables

A ==variable== is a named location that stores a value.

Values may be numbers, text, images, sounds, and other types of data. To store a value, you first have to declare a variable.

All JavaScript variables must be identified with unique names.

These unique names are called identifiers.

Identifiers can be short names (like x and y) or more descriptive names (age, sum, totalVolume).

JavaScript variables can hold numbers like 100 and text values like "John Doe".

Strings are written inside double or single quotes. Numbers are written without quotes.

Variable Example

```
var pi = 3.14;
var person = "John Doe";
var answer = 'Yes I am!';
```

Name

Store your first name as "firstName" and last name as "lastName"

Print

Print your first and last name on separate lines. Use "<br>" for a new line.

```javascript
1   // the hello world program
2   document.write('Hello, World!' + "<br>");
3
4   //Name
5   var firstName = "Big";
6   var lastName = "Mac";
7   document.write(firstName +"<br>");
8   document.write(lastName +"<br>");
9
10  //Concatenation
11  var name = firstName + " " + lastName;
12  document.write(name);
```

Hello, World!
Big
Mac
Big Mac

Exit Ticket

Biography

Using all the skills we learned today (variables, strings, print statements, comments, and concatenation). Write a brief summary about yourself. This could include:

- Age
- History
- Hobbies
- Likes/dislikes
- etc