**What is source code?**

-Source code is the language written by the programmer that is easy to read and understand for the computer to compile.

**What makes computers so “smart”, anyway?**

-They can perform multiple small tasks quickly.

**What is the purpose of a programming language?**

-Each language has a specific area in which it is most optimal, languages are written for people to understand.

**What are 3 examples of programming languages? Why are there so many of these?**

-C++, Javascript, Python. Languages evolve and adapt overtime, programmers find processes that are not fulfilled by the current programming languages and so they create another to fit that niche.

**What is a variable? Why are variables useful?**

Variables are created to store information, they are a memory slot in the computers system.

**What is the difference between a single-equals (=) and a double-equals (==)?**

Single = is setting a value to a variable and == is comparing.

**What is the difference between a double-equals (==) and a triple-equals (===)?**

The identity (===) operator behaves identically to the equality (==) operator except no type conversion is done, and the types must be the same to be considered equal.

**Why does the developer console exist?**

It is there to debug isses directly from the web page.

**When we talk about “conditional” statements, what does that mean? What is an example?**

A conditional statement is a IF ELSE statement.

Age = 10; if (age < 10){console.log(“you are young”)} else {console.log(“you are old”)}

**Why would we want FOR or WHILE loops in our source code?**

A for loop is generally used when you know how long your loop will run for and while is for the unknown.

**When would you use a WHILE loop, instead of a FOR loop?**

A while loop can be used when you do not have a fixed number of times you will run a loop.

**What is a function? Why would we use functions?**

A function is a bundle of code that can be used multiple times to run the same information.

**How many values can you receive back from a function? How many values can you send in?**

You can receive an unlimited amount.

**What is an array? How many values does it hold?**

An array is a list of numbers, strings or functions. It depends if you have a 32 or 64bit compuer.

**What is a T-diagram and why should I know how to use one?**

A T-Diagram is good to use in the beginning to make sure you understand the flow of code without loosing any of the steps or changes to the variables though a loop.

**What are the two ways to comment JS code? When would you use one versus the other?**

A // or /\* \*/