**Short Answer Questions: Fundamentals**

What is source code?

* All these sequences of instructions, written in programming languages

What makes computers so “smart”, anyway?

* Semicondoctors

What is the purpose of a programming language?

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

What is a variable? Why are variables useful?

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

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

Why does the developer console exist?

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

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

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

What is a function? Why would we use functions?

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

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

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

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