What is JavaScript?  
JavaScript is a high level (often) just in time compiled programing language that confirms to the ECMAScript specification.

High level = is more friendly language to code with

Just in time compiled = the code we write compiled during execution rather than before execution.

ECMAScript = is a standard JavaScript adheres to sure the code we write work across each browser

Why to learn JavaScript =

1. JavaScript, alongside HTML and CSS is one of the core technologies of the world wide web.
2. JavaScript can be used to build server side applications.
3. JavaScript is also used in mobile app development to create cross platform apps that can run both iOS and android
4. JavaScript is also used to create desktop applications.
5. JavaScript is the most popular programming language according to the 2021 stack overflow developer survey.

Variables = are used to store information   
let

Const

Var

Data Types = specifies what kind of data cant be store and minuplated

Primitive Data type

1. String type
2. Number type
3. Boolean type
4. Undefined type
5. Null type
6. BigInt type
7. Symbol type

Non primitive data type

1. Objects = is collection of values
2. Objects = is a complex data type

Operators

1. Assignment operators
2. Arithmetic Operators
3. Comparison Operators
4. Logical Operators
5. String Operators
6. Other Operators

Type Conversions

1. Implicit conversion also known as type coercion where JavaScript itself will automatically convert the type
2. Explicit conversion where you manually convert the type

Equality

1. ==(allows coercion)
2. ===(Does not allow coercion)