DWA_02.8 Knowledge Check_DWA2

- 1. What do ES5, ES6 and ES2015 mean and what are the differences between them?
 - ES5, ES6 and ES2015 are versions of ECMAScript/JavaScript.
 - ES5 is the fifth version of ECMAScript
 - ES2015 or ES6 is the sixth version of ECMAScript (ES6 and ES2015 are the same, ECMAScript committee just decided to name the specifications according to annual updates).
 - ES5 introduced new features such as JSON support.
 - ES6 introduced new features such as the let and const keywords.
- 2. What are JScript, ActionScript and ECMAScript and how do they relate to JavaScript?
 - A company called Netscape created JavaScript that was exclusively used by them.
 - Consequently, the Microsoft team who created internet explorer, created their own programming language called JScript
 - Later, JavaScript and JScript were unified into a single standardized language called ECMAScript.
 - ActionScript is an object-oriented programming language that has the same syntax and semantics as JavaScript and is used mainly for the development of websites on the Adobe Flash Player platform. (It is a JavaScript "knock-off" language).
- 3. What is an example of a JavaScript specification and where can you find it?
 - An example of a JavaScript specification is ECMA-262. It contains the most detailed and formalized information about JavaScript.
 - This specification can be found on the ECMA International Website.

- 4. What are v8, SpiderMonkey, Chakra and Tamarin? Do they run JavaScript differently?
 - V8, SpiderMonkey, Chakra and Tamarin are JavaScript compilers
 - A JavaScript compiler is a program that translates JavaScript code into machine code that can be executed by a computer.
 - Yes they do run JavaScript differently and with different performance characteristics
 - Eg. V8 uses a JIT compiler to optimize JavScript code at runtime, while SpiderMonkey uses both a JIT compiler and an interpreter
 - V8 powers Google Chrome and other Chromium-based web browsers
 - SpiderMonkey powers FireFox.
 - Chakra powers Microsoft Edge.
 - Tamarin is an open-source machine for the ActionScript and ECMAScript programming languages.

- 5. Show a practical example using **caniuse.com** and the MDN compatibility table.
 - includes() method determines whether an array includes a certain value among its entries. It returns either 'true' or 'false'.
 - According to the MDN compatibility table and caniuse, it is compatible on all web browsers