DWA_02.8 Knowledge Check_DWA2

- 1. What do ES5, ES6 and ES2015 mean and what are the differences between them?
 - ES5 ECMAScript 5 was released, December 2009. It added improvements like strict mode and native support for JSON.
 - ES6 / ES2015 ECMAScript 6/ECMAScript 2015 was released ,June 2015. It introduced major enhancements, including let and const for variables, arrow functions, classes, and more.

- 2. What are JScript, ActionScript and ECMAScript and how do they relate to JavaScript?
 - JScript Was created by Microsoft as a scripting language for Internet Explorer. JScript
 is essentially Microsoft's implementation of ECMAScript, the standard on which
 JavaScript is based. It was specific to Internet Explorer, so it shares similarities with
 JavaScript but was targeted for Microsoft's browser.
 - ActionScript is another implementation of ECMAScript that can develop rich internet applications, however it is built solely for interacting with Flash applications(Adobe).
 - ECMAScript Is the language specification. ECMAScript is the standard that JavaScript adheres to. ES5, ES6 (or ES2015), and subsequent versions showcasing the ongoing development and evolution of the language based on ECMAScript specifications.

3. What is an example of a JavaScript specification - and where can you find it?

JavaScript specification is the ECMAScript specification itself. ECMAScript is the standardized specification that defines the core features of JavaScript. It provides the rules and guidelines that JavaScript implementations (like browsers or other environments) should follow.

You can find it on the ECMA International website or follow the development on GitHub(Ecma TC39).

4. What are v8, SpiderMonkey, Chakra and Tamarin? Do they run JavaScript differently?

They are JavaScript compilers/engines.

- V8 is an open-source JavaScript engine developed by the Google Chrome browser. It is known for its designed to execute JavaScript code in the browser quickly and efficiently.
- SpiderMonkey Is the JavaScript engine developed by Mozilla for the Firefox browser. It's one of the oldest JavaScript engines and has undergone various improvements over the years. SpiderMonkey is known for its flexibility.
- Chakra Was the JavaScript engine developed by Microsoft for its Edge browser (legacy version, before Microsoft adopted Chromium for the new Edge). It was designed with a focus on performance and had features like Just-In-Time (JIT) compilation. However, Chakra is no longer actively developed, as Microsoft Edge has transitioned to using V8.
- Tamarin Was developed by Adobe and the Mozilla Foundation and was used as the JavaScript engine in the Adobe Flash Player. However, Flash Player, including Tamarin, has been phased out, and modern browsers no longer support Flash content.

5. Show a practical example using <u>caniuse.com</u> and the MDN compatibility table.

Please see screenshots on the next page...

- 1. Showing results for Caniuse.com const
- 2. Showing results for MDN Browser compatibility const

