

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 in 2009 and added new features such as “strict mode”, JSON support, String.trim(), Array.isArray(), Array iteration methods and allows trailing commas for object literals
- ES6 (ECMAScript 2015) was released in 2015 and added new features such as let and const keywords for block-scoped variables, default parameter values for functions, arrow functions, template literals, destructuring assignment for arrays and objects, rest parameters for functions, spread operator for arrays and objects, Object.assign() method

2. What are JScript, ActionScript and ECMAScript - and how do they relate to JavaScript?

- JScript and ActionScript are other languages that implement the ECMAScript standard. JavaScript is a dialect of ECMAScript

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

- The core language of JavaScript is standardized by the ECMA TC39 committee as a language named ECMAScript. "ECMAScript" is the term for the language standard, but "ECMAScript" and "JavaScript" can be used interchangeably

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

- Yes, V8, SpiderMonkey, Chakra and Tamarin are all JavaScript engines that run JavaScript differently.
- **V8** is Google's open-source high-performance JavaScript engine that is written in C++ and used in Google Chrome and Node.js. It compiles JavaScript code into machine code directly.
- **SpiderMonkey** is Mozilla's JavaScript engine that is written in C++. It was the first JavaScript engine to be created and is used in Mozilla Firefox.
- **Chakra** is Microsoft's open-source JavaScript engine that is written in C++. It was first introduced in Internet Explorer 9 and is now used in Microsoft Edge.
- **Tamarin** is Adobe's open-source virtual machine for ECMAScript (JavaScript) that is written in C++. It was used in Adobe Flash Player.

5. Show a practical example using caniuse.com and the MDN compatibility table.
