

# DWA\_02.8 Knowledge Check\_DWA2

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1. What do ES5, ES6 and ES2015 mean - and what are the differences between them?

- ES5: Official name for the ECMAScript specification update published in 2009.
  - ES6/ES2015: Initially referred to as ES6 but later changed to ES2015. Published in 2015, introduced new features like arrow functions and template literals.
  - Differences: ES5 requires the `function` keyword to define functions and `return` to fetch values. ES6/ES2015 allows using arrow functions without `function` keyword and omits `return` when fetching values.
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2. What are JScript, ActionScript and ECMAScript - and how do they relate to JavaScript?

- ECMAScript (ES): Standard for scripting languages. JavaScript, JScript, and ActionScript are implementations of ECMAScript.
  - JavaScript (JS): Most popular implementation of ECMAScript. Additional features beyond the standard.
  - ActionScript: Object-oriented language by Adobe, now a superset of ECMAScript.
  - Relation: JavaScript, JScript, and ActionScript implement ECMAScript. JavaScript is submitted to ECMA for standardization but called ECMAScript due to trademark issues.
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3. What is an example of a JavaScript specification - and where can you find it?

- Example: ECMAScript, standardized version of JavaScript.

- Location: Documented in ECMA-262 specification, also approved by ISO. Available on the Ecma International website.
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4. What are v8, SpiderMonkey, Chakra and Tamarin? Do they run JavaScript differently?

- V8: Open-source engine by Google for Chrome and Node.js.
  - SpiderMonkey: Open-source engine by Mozilla for Firefox.
  - Chakra: Proprietary engine by Microsoft.
  - Tamarin: Discontinued virtual machine for ECMAScript 4th edition.
  - Differences: Engines interpret JavaScript code differently based on their implementation.
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5. Show a practical example using [caniuse.com](https://caniuse.com) and the MDN compatibility table.

- Use of caniuse.com and MDN compatibility table: For checking browser support and compatibility of JavaScript features.
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