# DWA\_02.8 Knowledge Check\_DWA2

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

- - ES5 stands for ECMAScript 5
  - ES5 stands for ECMAScript 2015
  - ES2015 is just another name for ES6

## What are the differences between them?

#### FS5

- It was released in 2009.
- We can only define the variables by using the var keyword.
- It is time-consuming.
- It is the fifth edition of the ECMAScript.
- Both function and return keywords are used to define a function.

# ES6

- It was released in 2015.
- There are two ways to define variables, which are let and const.
- Due to destructuring and speed operators, object manipulation can be processed more smoothly in ES6.
- It is the sixth edition of the ECMAScript.
- It has an arrow function feature which allows the user to define the function without using function keyword

- 2. What are JScript, ActionScript and ECMAScript and how do they relate to JavaScript?
  - JScript is a scripting language developed by Microsoft Corporation. It is an implementation of the ECMAScript (ECMA-262) standard, which is the same standard on which JavaScript is based.
  - ActionScript is a scripting language developed by Adobe Systems. ActionScript and JavaScript are both based on ECMAScript.
  - ECMAScript is a standardized scripting language specification. It defines the syntax, semantics, and behavior of a scripting language, providing a common foundation for

various implementations.	JavaScript is one	of the most	popular	implementation	ıs of	the
ECMAScript standard.						

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

ECMAScript 2021 (ES2021) specification, It can be found on the official website of Ecma International: https://www.ecma-international.org/publications/standards/Ecma-262.htm.

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

#### **v8**

It is a free and open-source JavaScript and WebAssembly engine developed by the Chromium Project for Chromium and Google Chrome web browsers. It i's the JavaScript engine developed by Google for the Chrome browser

# **SpiderMonkey**

It is an open-source JavaScript and WebAssembly engine by the Mozilla Foundation. It is the JavaScript engine developed by Mozilla for the Firefox browser.

#### Chakra

It is a proprietary JScript engine developed by Microsoft. It is used in the Internet Explorer web browser. It is the JavaScript engine developed by Microsoft.

### **Tamarin**

It is a discontinued free software virtual machine with just-in-time compilation (JIT) support intended to implement the 4th edition of the ECMAScript (ES4) language standard. It was a JavaScript engine developed by Adobe Systems for the Adobe Flash Player.

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



