

# CoGrammar

## DfE Technical Assessment - Web Development (Fundamentals)

Total points **8/8** ?

Welcome DfE Students!

We're thrilled to have you here today. This assessment is designed to assess your skill level pre and post your participation in your chosen bootcamp.

Best of luck! 🚀 📚

### Your Task

In this assessment, you'll encounter eight diverse challenges that test your understanding of certain technical issues. Each question is a valuable opportunity to demonstrate your technical prowess.

Good luck with the assessment! You've got this! 🧠 💻 📝

Email \*

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Please enter your student number \*

Your student number looks like RX22040005898. You can find it on your student dashboard.

GH24040015574



Which HTML tag is used to create a hyperlink? \*

1/1

- ☐ <link>
- ☒ <a>
- ☐ <href>
- ☐ <hyperlink>

Which HTML element is used to define the main content of a web page, typically containing the central focus or purpose of the page?

\*1/1

- ☐ <section>
- ☒ <main>
- ☐ <article>
- ☐ <dev>

Which CSS property is used to specify the color of text? \*

1/1

- ☐ font-color
- ☒ color
- ☐ text-color
- ☐ text-style



Consider the following JavaScript code snippet:

\*

1/1

What are the data types of number1, number2, and sum, respectively?

JavaScript

```
let number1 = 10;  
  
const number2 = 5;  
  
let sum = number1 + number2;
```

- ☐ number, string, number
- ☐ number, number, string
- ☒ number, number, number
- ☐ string, number, number

Consider the following JavaScript code snippet:

\*

1/1

What will be logged to the console when this code is executed?

JavaScript

```
for (let i = 0; i < 5; i++) {  
    console.log(i);  
}
```

- ☒ 0, 1, 2, 3, 4
- ☐ 1, 2, 3, 4, 5
- ☐ 1, 2, 3, 4
- ☐ 0, 1, 2, 3



Consider the following JavaScript code snippet:

\*

1/1

What will be logged to the console when this code is executed?

```
JavaScript
class Animal {
  speak() {
    console.log("Animal makes a sound.");
  }
}

class Dog extends Animal {
  speak() {
    console.log("Dog barks.");
  }
}

const dog = new Dog();
dog.speak();
```

- ☐ "Animal makes a sound."
- ☒ "Dog barks."
- ☐ "Animal barks."
- ☐ "Dog makes a sound."



Consider the following JavaScript code snippet:

\*

1/1

What is the purpose of the `JSON.stringify()` method in this code?

JavaScript

```
const data = {  
  "name": "John",  
  "age": 30,  
  "city": "New York"  
};  
  
const jsonString = JSON.stringify(data);
```

- ☐ It parses a JSON object into a JavaScript string.
- ☒ It converts a JavaScript object into a JSON string.
- ☐ It sends an HTTP request to a server.
- ☐ It receives data from a server in JSON format.



Consider the following simplified React code snippet:

1/1

What does the 'exact' attribute do in the Route component for the home page?

JavaScript

```
import React from 'react';

import { BrowserRouter as Router, Route, Link } from
'react-router-dom';

const Home = () => <h2>Home</h2>;

const About = () => <h2>About</h2>;

const App = () => (
  <Router>
    <div>
      <Link to="/">Home</Link>
      <Link to="/about">About</Link>

      <Route path="/" exact component={Home} />
      <Route path="/about" component={About} />
    </div>
  </Router>
);

export default App;
```

- ☒ It ensures that the route matches exactly the specified path.
- ☐ It signifies that the component should render only when the path partially matches the current URL.
- ☐ It specifies that the route should only be active when no other routes are matched.



- ☐ It defines the default route for the application.

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