





Home > Course > Write JavaScript for the Web > Quiz: Manipulate the DOM

Write JavaScript for the Web

(1) 10 hours



■ Medium

Last updated on 4/2/20





Manipulate the DOM

Nice! You passed this exercise!

Evaluated skills

- capture DOM events
- access and modify DOM elements

Question 1

Which of	the follow	ing fun	ctions	will return	a colle	ection co	ntaining	all	noc	des w	ithin the document?	
√	document.	getEleme	ntsByTa	gName('p');	and	document.	querySele	ctorAll('p'	');			
O Both	<pre>document.getElementsByClassName('p');</pre> and document.getElementById('p');								');			
O Only	document.	querySel	ector('¡	0');								
document.getElementsByTagName('p') and document.querySelectorAll('p') both return								ırn th	the required collection.			
document.getElementsByClassName('p') returns a collection of all nodes with class="p" ,									,	<pre>document.getElementById('p')</pre>		
returns the	node with	id="p"	, and	document.qu	ıerySele	ector('p')	will only	return the	first	>	node in the document.	

Question 2

Select the three functions below which will return the paragraph
careful, there are several correct answers.

document.getElementsByTagName('main-article');

document.getElementById('main-article');

document.querySelector('p#main-article');

document.querySelector('p.main-article');

As there can only be one node with any given id , both document.getElementById('main-article') and document.querySelector('#main-article') will return the required paragraph, as will document.querySelector('p#main-article')

will return the required paragraph, as will document.querySelector('p#main-article')

Question 3

```
Which of the following functions will return a collection containing all nodes (and ONLY nodes)

of class list-item-active ?

document.getElementById('list-item-active');

document.getElementByClassName('list-item-active');

document.querySelector('li.list-item-active');

document.querySelector('li.list-item-active') will return the required collection.

document.getElementById('list-item-active') will return the node with id="list-item-active" ,

document.getElementById('list-item-active') will return all nodes with class="list-item-active" , regardless of tag

name, and document.querySelector('li.list-item-active') will only return the first node of type

cli class="list-item-active"> .
```

Question 4

Which of the following would add the class "active" to the paragraph with id "new-article" ?

Odocument.getElementsByClassName('new-article').classList.push('active');

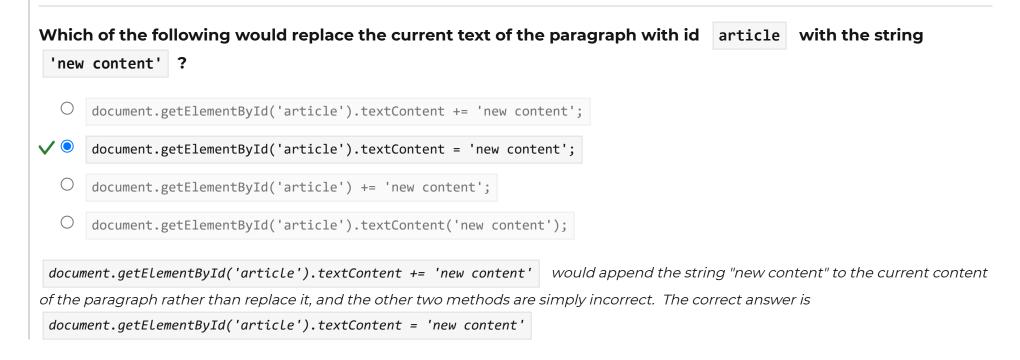
Odocument.getElementById('new-article').classList.push('active');

```
document.querySelector('#new-article').classList.add('active');

document.querySelector('new-article').classList.add('active');

Although document.getElementById('new-article') accesses the correct paragraph, the correct method for adding a class to a classList is add() and not push() . The other answers do not access the correct paragraph.
```

Question 5



Question 6

Which of the following would remove the button with id submit-form ?

javascript

document.querySelector('#submit-form').delete();

```
\bigcirc
                                                             javascript
          1 const button = document.querySelector('#submit-form');
V •
                                                             javascript
          1 const button = document.querySelector('#submit-form');
          2 button.parentNode.removeChild(button);
                                                             javascript
           1 const button = document.querySelector('#submit-form');
           2 button.delete(button);
```

Remember that, to remove a node, you need access both to the node itself and to its parent; you cannot simply remove a node with its reference.

Question 7

```
Which of the following adds a new list item containing the string
                                                                                        to the unordered list with id
                                                                             Apples
 shopping-list ?
V •
                                                               javascript
         1 let newItem = document.createElement('li');
         2 newItem.textContent = 'Apples';
           document.querySelector('ul#shopping-list').appendChild(newItem);
                                                               javascript
         1 Let newItem = document.createElement('Apples');
         2 document.querySelector('ul#shopping-list').appendChild(newItem);
                                                               javascript
```

```
2 newItem.textContent = 'Apples';
3 document.querySelector('ul#shopping-list').appendChild(newItem);
```

The three steps to adding a new child node to an element are:

- 1. Create the element
- 2. Populate the element
- 3. Add the finished element to the DOM

Here, answer B does not use the createElement() function correctly, and answer C uses the incorrect createNode()

function

Question 8

Which of the following will make the button with id submit-form, when clicked, display an alert?

```
javascript
1 document.getElementById('submit-form').listen('click', () => {
```

```
V •
```

javascript

```
1 document.getElementById('submit-form').addEventListener('click', () => {
      alert('Form submitted!');
3 });
```

javascript 1 document.getElementById('submit-form').onclick(function()

javascript

```
1 document.addEventListener('#submit-form', 'click', () => {
2    alert('Form submitted!');
3 });
```

To add an event listener to an element:

- 1. Access the element

Question 9

Which of the following will log the cursor's position (its X and Y coordinates) to the console as it moves over the div element of id my-map ?

```
3 console.log('X: ' + $event.offsetX + ' | Y: ' + $event.offsetY);
4 });
```

Answer A will only register the mouse's position once, as it arrives into the selected div (the mouseover event). Answer B uses the incorrect event and does not correctly output event information. Answer C uses the correct event, but does not output the information correctly, attempting to access an inexistent mouse property.

Question 10

Challenge time! Which of the following will, whenever the user scrolls the window, log the distance between the top of the window and the top of the div element with id results?

Hint: you will need to do a bit of research for this one!

```
\bigcirc
                                                               javascript
          1 const resultsDiv = document.querySelector('div#results');
          2 window.addEventListener('scroll', () => {
                 console.log(resultsDiv.scrollTop - window.scrollTop);
V O
                                                               javascript
          1 const resultsDiv = document.querySelector('div#results');
          2 window.addEventListener('scroll', () => {
                 console.log(resultsDiv.offsetTop - window.scrolly);
          4 });
XO
                                                               javascript
          1 const resultsDiv = document.querySelector('div#results');
          2 window.addEventListener('scroll', () => {
                 console.log(window.scrollTop - resultsDiv.scrollTop);
```

4 });

You need to calculate the difference between resultsDiv.offsetTop (how far the vindow.scrolly (how far the window's content has been scrolled). This was a tricky one!

N.B. This sort of calculation is extremely useful for things like parallax scrolling effects, as you need to know where an element is with respect to the surrounding window.



SUMMARY

HANDLE INPUT FROM YOUR USERS

>

Teacher



Will Alexander

Scottish developer, teacher and musician based in Paris.

OPENCLASSROOMS

~

BUSINESS SOLUTIONS

.

CONTACT

LEARN MORE











