# Study Guide: JavaScript DOM

w3schools.com has great documentation on the JavaScript DOM properties and methods:

<http://www.w3schools.com/jsref/dom_obj_node.asp>

Node Object Properties & Methods

A node is *anything* in JavaScript: the document, an element, attributes, text, comments… anything.

1. **childNodes** – The child elements of any selected element in the DOM, returning a nodeList object
2. **firstChild** – the first node of the selected node
3. **lastChild** – the last child node of the specified node
4. **nodeName** – name of the specified node
5. **nodeType** – node type of the specified node as a number, eg: element-1, attribute-2
6. **nodeValue** – it returns the value of the specified node
7. **appendChild()** – allows you to add a node after creating an element to a specific element in the DOM.
8. **cloneNode()** – copies the node and can be used to add a similar node to desired location in the DOM
9. **insertBefore()** – allows you to add a child before a specified child for a desired node
10. **removeChild()** – removes a specified child node of a specified node
11. **replaceChild()** – replaces a specified child of a specified node

Document Object Methods

The document object is everything between the <html> tags.

1. **createElement()** – used to create any element in the document object of the window
2. **createTextNode()** – creates a text node in the document object of the window with a specified text
3. **getElementById()** – gets hold of a particular element which has the specified ID. It is highly useful in manipulating the DOM and adding any sort of functionality so desired.
4. **getElementsByTagName()\*** - gets hold of the elements that have the matching tag name as specified in the function in the document object. For eg. Document.getElementsByTagName(`h2`) will return an array of all the li elements in the DOM.

Element Object Methods

The element object represents an HTML element.

1. **getAttribute()** – to get hold of a specific attribute of an element. This can be used to manipulate the specified attribute of the element which basically means manipulating the DOM
2. **getElementsByTagName()\*** - This allows us to get the child elements of a specified element matching the tag specified. Eg. <ul> has <li> tags
3. **removeAttribute()** – remove a certain attribute of a specified element.
4. **setAttribute()** – to add an attribute to a specified element. Eg. Style, class, id, src(image),etc.