

JavaScript/jQuery Quiz Study Guide

The focus of the quiz will be on the correct recall and use of JavaScript/jQuery syntax.

The quiz will be a closed book, closed notes, quiz. It will be a traditional paper-based quiz. You can expect the quiz to have 30 points. Questions will be worth one point each unless otherwise noted.

Some questions will be multiple choice. Some questions will be short answer (that is, one or two words, or a single line of code). Other questions will require the student to write several lines of code. The questions that require students to write several lines of code are typically worth more points than the multiple-choice / short-answer questions.

Here's a list of topics that suggest what you can expect to see on the quiz. Be advised that there will be an emphasis on jQuery but, as you now know, jQuery doesn't exist without JavaScript around it.

JavaScript Fundamentals

- Data types: numbers, strings, Booleans, simple arrays.
- What are valid / invalid variable names? How to declare and assign a variable using `var`.
- Math operators: `+`, `-`, `*`, `/`, `%`
- The syntax of the `prompt` command to get the value from the user.
- Print the value to the console using `console.log()`
- Useful functions: `isNaN()`, `parseInt()`, `parseFloat()`
- Comparison operators: `==`, `!=`, `>`, `<`, `>=`, `<=`
- Logical operators: `!`, `&&`, `||`
- The syntax of "if" statements ("if - else if - else"). This includes the ability to compare variables and/or literal values.
- The syntax of a "for" statement. This includes the use of the "++" operator to add one to a variable. (As in: "i++").
- The syntax of work with an array: create, add an element, get the value by the index, use "for" loop to iterate through the elements of the array.
- The basic pattern for expressing a function in JavaScript: `var somename = function(){};`
- Passing values in to a function with parameters and getting a result with `return`.
- Objects: understanding the difference between properties, methods, and events.
- String variables as objects: the `.length` property and the `.toUpperCase()` method
- Number variables as objects: the `.toFixed()` method.

jQuery

Selectors

- `.` for classes
- `#` for ids
- No prefix for tags

Events

`.ready()`, `.click()`

Methods

`.html()`, `.append()`, `.val()`, `.addClass()`, `.removeClass()`,
`.toggleClass()`, `.next()`

Other

The Google Developer Tools – what's a breakpoint? Use the F9 key to step through code.