1. JavaScript concepts

This would be a good time to re-read the first half of JavaScript resources, through "How to Loop over Lists."

JavaScript and JQuery: Interactive Front-End Web Development by Jon Duckett

- Chapters 3 'Functions, Methods & Objects' and Chapter 4 'Decisions & Loops'

    - Revisit in depth the sections on decisions and looping, and the use of the Math object for things like rounding.

- Chapter 10 'Error Handling & Debugging'

    - Pay particular attention to the discussion about the execution stack.

2. Debugging

When code becomes complicated, a very useful tool is the ability to set breakpoints in your code so that you can inspect variables and step through the code one instruction at a time.

- Advanced Debugging with JavaScript

- Using the Chrome Debugger Tools...

    - Details on the Chrome debugger for advanced users.

Before browser debuggers became as common and powerful as they are, a common approach was to add instructions to JavaScript code to print information to the console log. This can still a useful tool sometimes, especially to capture data to submi for help.

- page 471 of *JavaScript and JQuery: Interactive Front-End Web Development* by Jon Duckett has examples of using of `console.log()`

- JavaScript Output -- interactive examples of various JavaScript output types.

    - Scroll down to see `console.log()` being used

Optional resources

1. JSON, including Looping

A JSON Tutorial: Getting Started with JSON using JavaScript and jQuery

- Work through or review this tutorial for a solid introduction to:

    - creating JSON data

    - inserting JSON data into an HTML page

    - pulling JSON data from an external file

- inserting JSON data into an HTML page using jQuery

- looping over JSON data to construct strings containing both data and embedded HTML markup, and then inserting the result into an HTML page

  - You can loop over JSON data to perform calculations on it as well.

More on Looping Through a JSON Array