**JavaScript Worksheet**

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**Instructions:**

1. Write out definitions for the following terms. Use Google, your book or this week’s lesson. Do NOT copy and paste definitions, write your own. Hint: When searching Google preface your search term with “javascript” (otherwise you might get answers for different programming languages):

A **STRING** is a data type—enclosed in matching single- or double- opening/closing straight quotes—featuring text messages made of letters and characters, all on one line. In JavaScript, a string can be used to add new content into a page and can contain HTML markup.

A **FUNCTION** is a set of statements that performs a task or calculates a value which can be used to over and over (like a recipe or an instruction manual). You must define/declare the function and give it a var name. The function is followed by an input in parenthesis and curly brackets with the instructions you want the function to perform within them.

**A *document*** is a node, an object that represents an HTML page loaded in a web browser and contains the following content that allows JavaScript to interact with the HTML node objects: properties (describe the characteristics of a webpage), methods (perform tasks like getting new information for a specific element) and events (what happens in relation to user-interactions like clicking on an element).

A **variable** is data—representative of numbers or other data—that is temporarily stored and can change each time a script runs. In order to use a variable, you must first declare it and give it a name. Then you can assign the information you want the variable to store.

2. Describe what each line of code is doing – make sure you include the element being acted on and what action is being taken. In the last example, figure out the math problem to know what the value of *num* will be.

**document.createElement(‘h2’);** We’re using JavaScript to create a node/header attribute in the the HTML document object

**“Hello World!”.length;** We’re using JavaScript to count/return the number of characters in the string “Hello World!” by calling on the length property.

**var num = (100 \* 2) – 50;** We’re using JavaScript to perform a function called “num” in which the multiplication and subtraction operators are being used. The value of num will equal to 150.