ICS3 Exam Review

|  |  |
| --- | --- |
| HTML     * Basic structure of a page * Elements (paragraphs, headers, images, links, ordered/unordered lists, tables, buttons, canvas)     CSS     * Using selectors to style elements * Basic properties and creating rules * Internal, external, and inline CSS * Colors (named, hex, RGB)     JavaScript     * Basic math operators (addition, subtraction, exponentiation, division, multiplication, modulus, parentheses) * Boolean operators (&&, ||, !) * Comparison operators (equal to, not equal to, greater than, less than or equal to, etc.) * Data types (integers, strings, floats, Booleans, arrays/lists) * Manipulate strings (capitalize first letter, get length, etc) * User input, prompts, alerts, screen output * Random number generation * Conditionals (if statements) * Variables (declaring and assigning) * Array (list) elements, indexes, array modification (appending to a list), iterating over a list * For Loops and While Loops * Functions (parameters, arguments, calling functions, ‘return’) * innerHTML (only basic understanding, not exact syntax) | Code Maintenance and Debugging   * Strategies for identifying and correcting syntax, logic, and runtime errors (manual code tracing, extra code to output the state of variables to the console * Developer’s console and debugging tools * Interpreting error messages * Use standard naming, indenting, and commenting conventions   Project Planning, File management     * Website wireframes * File structure and file paths * Managing source code, version control (GitHub)     Topics in Computer Science   * Cryptography * Ethics (plagiarism, privacy, team projects) * Working independently using support documentation (tutorials, websites, user manuals, IDE help)   Counting Systems     * Binary, Hexadecimal * Their applications (e.g. colours) * Bits and bytes * ASCII, Unicode       Review past quizzes and assignments and content on the class site |