

## APCS Final Review Topics

1. Arithmetic
  - a. Binary Operations
  - b. Unary Operation
  - c. Integer vs Double Arithmetic
  - d. Assignment operators
  - e. Relational Operators
  - f. Casting
  - g. Concatenation
2. The Math Class
  - a. Included methods: min, max, sqrt, abs, floor, ceil, round, random.
3. Conditional Structures
  - a. One way, two way , multiple way selection
    - i. If, if/else, switch
  - b. Looping and iteration
    - i. For loop, while loop, do while loop
4. Static Arrays
  - a. Indices and identifying elements
  - b. Length
  - c. Passing through an array with a for loop
  - d. 2D arrays
5. Objects and classes
  - a. Instantiation
  - b. Object methods and method calls
  - c. Object attributes
  - d. Static vs non-static methods
  - e. Constructors
6. Programming features
  - a. Inheritance
  - b. Composition
7. Boolean Logic
  - a. And ( && ) vs Or ( || )