**Java/C++ Lesson Plan SBC2015**

* Hello World
  + Print vs println (cout << endl)
  + Add comments
* Variables
  + Ints vs doubles (try int 5/2)
  + Math
  + Concatenate Fav number
  + Chars (fav letter)
  + Strings (name)
  + Boolean
* Scanner
  + What’s your name?
    - Nice to meet you
  + **MAD LIBS**
* If statements
  + Boolean logic table
  + What’s your age? (5 ranges, conditional, Boolean)
  + Secret password
* Random numbers
  + 50%/50% what are the odds?!
  + Guessing game
    - Player guesses computer’s random number
    - Computer guesses player’s number
* While loops
  + Add “won” Boolean to guessing game
* For loops
  + Print “Hello” 10 times
  + Print i 10 times
  + Random # review, print 10 random #s
  + **STAR CHALLENGE**
    - Straight line
    - Nested
      * Square
      * Right triangle
      * Pyramid
* Arrays
  + Friends array
  + For loop to print
* Methods
  + Return types, parameters
  + Print name (void)
  + Return name (String), then print
  + Add two #s (int)

Game plan modules

* Game Plan 101
* Rules of the Game
* Using Variables
* Scanner
* Boolean algebra