



# **ST. MARY'S** *Catholic High School, Dubai*

## **FINAL EXAMINATION PORTION** **COMPUTING- YEAR 8**

### **1. Computational Thinking**

- 1.1 What do I know?
- 1.2 Using pseudocode
- 1.3 Exhaustive search algorithms
  - Abstraction & Exhaustive search algorithm
- 1.4 Sort algorithms
  - Insertion sort
  - Bubble sort
- 1.5 More search algorithms
  - Serial/Linear search
  - Binary search

### **3. Data and the CPU**

- 3.1 Bits, bytes and base2
  - Convert Decimal to Binary
  - Convert Binary to Decimal
- 3.2 Adding in Binary

### **4. Introduction to Python**

- 4.1 Calculate  
(Data types, Operators, Input/output)
- 4.2 Repeat  
(Iteration using FOR loop)
- 4.3 Exit Condition  
(Iteration using While loop)
- 4.6 Validate input  
(Selection using IF, IF...ELSE, IF...ELIF and NESTED IF)

**NOTE: REFER TEXTBOOK, POWERPOINT PRESENTATIONS  
AND WORKSHEETS POSTED IN GOOGLE CLASSROOM**