|  |  |
| --- | --- |
| **Subject: Computing**  **Year: 9 Rotation** | |
| **Topic 1**  **Digital Graphics (Bitmap)**   * Evaluate how bitmap graphics are different to vector graphics * Purpose of different digital graphics * Meaning within graphics * Using colours and objects effectively * Implementing and utilising whitespace effectively * Explain digital graphics properties * Basic tools digital graphics editing software * Types of files used in image editing (file formats) * Graphical editing careers * Analyse a brief issued by a client * Identify success criteria for a given project * Construct a digital graphic for a given purpose and specification * Evaluate the effectiveness of a constructed graphic | **Topic 2**  **Physical Computing**   * Describe what the micro:bit is * List the micro:bit’s input and output devices * Use a development environment to write, execute, and debug a Python program for the micro:bit * Write programs that use the micro:bit’s built-in input and output devices * Write programs that communicate with other devices by sending and receiving messages wirelessly * Write programs that use GPIO pins to generate output and receive input * Decompose the functionality of a physical computing system into simpler features * Design a physical computing artifact purposefully, keeping in mind the problem at hand, the needs of the audience involved, and the available resources * Implement a physical computing project, while following, revising, and refining the project plan * Implement a physical computing project, while following, revising, and refining the project plan |