FLEETWOOD HIGH SCHOOL: CURRICULUM OVERVIEW

COMPUTING: Skills and Content	
Year 8 Age Related Expectations	
When Completed:	Skills
Throughout the year	Combine a variety of software to accomplish goals. Select, use and combine software on a range of different devices. Use multiple applications. Understand how to judge the trustworthiness of digital artefacts.
HT1 – Systems Architecture	Understand what system and application software is. Understand what RAM and ROM is and be able to explain the differences between the two. Understand the different types of storage media – Magnetic, Solid State and Optical.
HT2 / 3 – Computational Thinking and Programming	Understand the PRIMM model for creating programs. Use sequencing, selection and repetition in programs. Work with variables. Use operators in programs Use logical reasoning to explain how some simple algorithms work. Use logical reasoning to detect and correct errors in algorithms.

HT4 – Data Representation	Understand how to convert a 8 digit Binary number to Denary. Understand how to convert a 8 digit Denary number to Binary. Add 8 digit Binary numbers together. Understand simple Boolean logic, such as - AND, OR and NOT and some of its uses in circuits and programming. Create Logic Gate diagrams for given scenarios.
HT5 – Computer Networks	Understand what a computer network is and why they are needed. Understand the difference between wired and wireless networks. Understand the different topologies used in a network. Understand developments with networking infrastructures e.g. The Cloud
HT6 – Physical Computing / Micro:bits	Test a program on an emulator. Transfer a program to a physical device. Use a variables and conditional statements within a program. Modify a program to achieve a different outcome. Test programs to check for errors.