Unit Overview – Computer Hardware   Completion date: July

You will learn about
The internal parts of a computer
Computer networking

You will be able to
Describe how a CPU works and different types of secondary storage.
Explain what different networks do and how they functions.

TERM 3	
Topic Overview	**Key Words**
Computer Systems – Secondary Storage Discover the reason why secondary storage is needed and the different types. Know how Hard Disk Drives, Optical Media and Solid State Drives operate. **Computer Systems – CPU** Know what the internal parts of a CPU are and how they process data **Networks – Intro** Know and understand the hardware required to create a computer network. **Network Protocols** Know how the data is transmitted across networks using different networking protocols. **Network Modelling.** Learn to build a computer network using the Cisco Packet Tracer simulation software that creates a virtual operational network. **End of Year Exam**	**Hardware:** the physical parts of a computer system, both internally and externally (peripheral). **Software:** the programs that operate at different levels in a computer system. **Network –** two or more computer devices connected together. **Data Encryption:** a method of preventing the understanding of a file being found out **Social Engineering** – the method getting a user (victim) to do things they would not normally do or make themselves vulnerable. **Malware –** various different types of malicious software.
Suggested reading or support available **Teach ICT** http://www.teach-ict.com/2016/GCSE_Computing/AQA_8520/aqa_8520_home.html **BBC Bytesize GCSE Computer Science**	**Cross curricular** **SMSC**: hacking, data security and ethics **Literacy**: Research methods of ethical and environmental IT issues. **Numeracy**: binary storage capacities, algorithms for data compression.