	Topic (Click link to access "CraignDave" Video)	ClearRevise Pages	CTS Website Link
Architecture of the CPU	• The purpose of the CPU • Common CPU components and their features. • Von Neumann architecture	Pg 2-3	System Architecture Von Neumann Architecture
Primary storage (Memory)	• The need for Primary Storage • RAM and ROM • Virtual Memory	Pg 6-7	System Architecture Primary Memory
Secondary storage	• The need for secondary storage • Common Types of Storage • Suitable storage devices and storage media	Pg 8-9	System Architecture Secondary Storage
Units	• The units of data storage	Pg 11	Data Representation Units
Data Storage	• Converting between denary and binary • Converting between denary and 2-bit hexadecimal • Adding two bit binary integers • Binary shifts (multiplication / division) • Characters. • Images. • Sound.	Pg 12-16 Pg 17 Pg 18-19 Pg 20	Data Representation
Compression	• All subtopics to be covered	Pg 21	Data Representation
Networks and topologies	• Factors that affect the performance of networks. • The hardware needed to connect stand-alone computers into a Local Area Network. • The Internet as a worldwide collection of computer networks.	Pg 23 Pg 24 Pg 28	Networks **All topics except for Virtual networks**
Wired and wireless networks, protocols and layers	• Modes of connection. • Encryption. • IP addressing and MAC addressing. • Standards. • Common protocols.	Pg 29 Pg 30 Pg 31 Pg 32	
Identifying and preventing vulnerabilities	• Threats posed to networks • Common prevention methods • Forms of attack	Pg 35	System Security Cyber Prevention System security Cyber Threats
Ethical, legal, cultural and environmental impact	• Privacy • Cultural impacts • Environmental impacts • Impact on a wider society • Legislation	Pg 40-41 Pg 43	Ethical, Legal, Cultural and Environmental **All webpages except from open source and proprietary software**