

	Topic (Click link to access "CraignDave" Video)	ClearRevise Pages	CTS Website Link
Architecture of the CPU	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> The need for Primary Storage RAM and ROM Virtual Memory 	Pg 6-7	System Architecture Primary Memory
Secondary storage	<ul style="list-style-type: none"> The need for secondary storage Common Types of Storage Suitable storage devices and storage media 	Pg 8-9	System Architecture Secondary Storage
Units	<ul style="list-style-type: none"> The units of data storage 	Pg 11	Data Representation Units
Data Storage	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> All subtopics to be covered 	Pg 21	Data Representation
Networks and topologies	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Modes of connection. Encryption. IP addressing and MAC addressing. Standards. Common protocols. 	Pg 29 Pg 30 Pg 31 Pg 32	
Identifying and preventing vulnerabilities	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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