## Year 12 CTEC IT Sequence



Year	Content Taught	Reference	Essential Knowledge	Assessment	Rationale			
Year 12	/ear 12 CTEC DIT							
HT1 (A)	Fundamentals of IT	Understand computer hardware	Computer Hardware and Components, Connectivity methods etc	Formative Students will complete retrieval exercises each lesson to review and recall knowledge from previous lessons and apply this knowledge to alternate scenarios to deepen understanding. Summative Students will complete a Teams based KO Test to summarise content. Within this half term students will develop essential knowledge in lessons and 'bring it all together', by completing an in class assessment based on LO1 using a range of all topics in a 1 hour formal assessment. Students will revisit this to address any misconceptions. Evidence can be found inside the physical student folders.	This Essential Knowledge builds on knowledge gained in both KS3 and KS4. Information Technology involves a refreshing and exciting content, that's up to date, engaging, fit for purpose and suitable for the needs of students. Students who study IT will gain the right combination of knowledge, understanding and essential knowledge required for the 21st century. Fundamentals of IT and Global Information in Yr 12 builds upon KS4 Year 11 where students have learned through Effective Digital Working Practices			

					how to develop knowledge,
					understanding and
HT1 (B)	<b>Global Information</b>	Understand whe	e Hard Drives, Routers,		essential knowledge of
		information is he	d Modems, Computers	Students will complete retrieval	how Digital Information is
		globally and how it	is etc	exercises each lesson to review and	transmitted and kept safe.
		transmitted		recall knowledge from previous	Students will gain an insight
				lessons and apply this knowledge to	into the IT sector as they
				alternate scenarios to deepen	investigate the pace of
				understanding.	technological change, IT
					infrastructure, the flow of
				Summative	information on a global
				Students will complete a Teams	scale, and the importance
				based KO Test to summarise	of legal and security
				content.	considerations. This will
					allow the students to
				Within this half term students will	succeed in any career path
				develop essential knowledge in	they choose while using
				lessons and 'bring it all together', by	technology, along with
				completing an in class assessment	helping students to succeed
				based on LO1 using a range of all	in Higher Education as the
				topics in a 1 hour formal	qualification meets the
				assessment. Students will revisit	requirements that today's
				this to address any misconceptions.	universities and employer's
				Evidence can be found inside the	demand.
				physical student folders.	
					Student's will practically
HT2 (A)	Fundamentals of IT	Understand comput	er Open source, closed	Formative	apply their essential
		software	source, off the shelf,	Students will complete retrieval	knowledge in preparation
			bespoke, shareware,	exercises each lesson to review and	for further study,
			freeware, embedded	recall knowledge from previous	apprenticeship or the
			and productivity	lessons and apply this knowledge to	workplace
			software	alternate scenarios to deepen	In Yr 12 Fundamentals of IT
				understanding.	builds upon and further

				develops the essential
			Summative	knowledge studied in Yr 11s
			Students will complete a Teams	Effective Digital Practices to
			based KO Test to summarise	ensure a sound
			content.	understanding of IT
				technologies that are
			Within this half term students will	essential for IT
			develop essential knowledge in	professionals. Information
			lessons and 'bring it all together', by	' learnt in this unit will
			completing an in class assessment	provide a solid foundation
			based on LO2 using a range of all	in the fundamentals of
			topics in a 1 hour formal	hardware, networks,
			assessment. Students will revisit	software, the ethical use of
			this to address any misconceptions.	computers and how
			Evidence can be found inside the	business uses IT.
			physical student folders.	
				In Yr 12 Global Information
HT2 (B)	Global Information	Understand the styles,	Formative	builds upon and further
НТ2 (В)	Global Information	Understand the styles, classification and the	Formative Students will complete retrieval	
НТ2 (В)	Global Information	, , ,		builds upon and further
HT2 (B)	Global Information	classification and the	Students will complete retrieval	builds upon and further develops the essential knowledge of the uses of information in the public
HT2 (B)	Global Information	classification and the management of global	Students will complete retrieval exercises each lesson to review and	builds upon and further develops the essential knowledge of the uses of information in the public domain, globally, in the
HT2 (B)	Global Information	classification and the management of global	Students will complete retrieval exercises each lesson to review and recall knowledge from previous	builds upon and further develops the essential knowledge of the uses of information in the public domain, globally, in the cloud and across the
HT2 (B)	Global Information	classification and the management of global	Students will complete retrieval exercises each lesson to review and recall knowledge from previous lessons and apply this knowledge to	builds upon and further develops the essential knowledge of the uses of information in the public domain, globally, in the cloud and across the internet, by individuals and
HT2 (B)	Global Information	classification and the management of global	Students will complete retrieval exercises each lesson to review and recall knowledge from previous lessons and apply this knowledge to alternate scenarios to deepen understanding.	builds upon and further develops the essential knowledge of the uses of information in the public domain, globally, in the cloud and across the internet, by individuals and organisations, previously
HT2 (B)	Global Information	classification and the management of global	Students will complete retrieval exercises each lesson to review and recall knowledge from previous lessons and apply this knowledge to alternate scenarios to deepen understanding.	builds upon and further develops the essential knowledge of the uses of information in the public domain, globally, in the cloud and across the internet, by individuals and organisations, previously studied in Yr 11s Effective
HT2 (B)	Global Information	classification and the management of global	Students will complete retrieval exercises each lesson to review and recall knowledge from previous lessons and apply this knowledge to alternate scenarios to deepen understanding. Summative Students will complete a Teams	builds upon and further develops the essential knowledge of the uses of information in the public domain, globally, in the cloud and across the internet, by individuals and organisations, previously studied in Yr 11s Effective Digital Practices, it provides
HT2 (B)	Global Information	classification and the management of global	Students will complete retrieval exercises each lesson to review and recall knowledge from previous lessons and apply this knowledge to alternate scenarios to deepen understanding. Summative Students will complete a Teams based KO Test to summarise	builds upon and further develops the essential knowledge of the uses of information in the public domain, globally, in the cloud and across the internet, by individuals and organisations, previously studied in Yr 11s Effective Digital Practices, it provides a greater understanding of
HT2 (B)	Global Information	classification and the management of global	Students will complete retrieval exercises each lesson to review and recall knowledge from previous lessons and apply this knowledge to alternate scenarios to deepen understanding. Summative Students will complete a Teams	builds upon and further develops the essential knowledge of the uses of information in the public domain, globally, in the cloud and across the internet, by individuals and organisations, previously studied in Yr 11s Effective Digital Practices, it provides a greater understanding of how organisations use
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				based on LO2 using a range of all	stored and processed by
				topics in a 1 hour formal	organisations. It develops
				assessment. Students will revisit	an understand the
				this to address any misconceptions.	legislation and regulation
				Evidence can be found inside the	governing information that
				physical student folders.	flows into and out of an
					organisation and the
HT3 (A)	Fundamentals of IT	Understand business IT	Types of servers,	Formative	constraints and limitations
		systems	networks, Business	Students will complete retrieval	that apply to it.
			Systems, Virtualisation	exercises each lesson to review and	
				recall knowledge from previous	This will lead to students
				lessons and apply this knowledge to	being able to gain future
				alternate scenarios to deepen	employment within the
				understanding.	Computing sector, study for
					an apprenticeship or apply
				Summative	for university.
				Students will complete a Teams	
				based KO Test to summarise	
				content.	
				Within this half term students will	
				develop essential knowledge in	
				lessons and 'bring it all together', by	
				completing an in class assessment	
				based on LO3 using a range of all	
				topics in a 1 hour formal	
				assessment. Students will revisit	
				this to address any misconceptions.	
				Evidence can be found inside the	
				physical student folders.	
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HT3 (B)	Global Information	Understand the use of		Formative	
1115 (0)		global information and		Students will complete retrieval	
		the benefits to individuals		exercises each lesson to review and	
		and organisations		recall knowledge from previous	
				lessons and apply this knowledge to	
				alternate scenarios to deepen	
				understanding.	
				Summative	
				Students will complete a Teams	
				based KO Test to summarise	
				content.	
				Within this half term students will	
				develop essential knowledge in	
				lessons and 'bring it all together', by	
				completing an in class assessment	
				based on LO3 using a range of all	
				topics in a 1 hour formal	
				assessment. Students will revisit	
				this to address any misconceptions.	
				Evidence can be found inside the	
				physical student folders.	
	Fundamentals of IT		Communication	Formation	
HT4 (A)	Fundamentals of IT	Understand employability	Communication	Formative	
		and communication essential knowledge used	essential knowledge, Ready for work, Job	Students will complete retrieval exercises each lesson to review and	
		in an IT environment	roles personal	recall knowledge from previous	
			attributes	lessons and apply this knowledge to	
				alternate scenarios to deepen	
				understanding.	
				Summative	
				Students will complete a Teams	

			1	<b>I</b>
			based KO Test to summarise	
			content.	
			Within this half term students will	
			develop essential knowledge in	
			lessons and 'bring it all together', by	
			completing an in class assessment	
			based on LO4 using a range of all	
			topics in a 1 hour formal	
			assessment. Students will revisit	
			this to address any misconceptions.	
			Evidence can be found inside the	
			physical student folders.	
HT4 (B)	Global Information	Understand the legal and	Formative	
		regulatory framework	Students will complete retrieval	
		governing the storage and	exercises each lesson to review and	
		use of global information	recall knowledge from previous	
			lessons and apply this knowledge to	
		Understand the process	alternate scenarios to deepen	
		flow of information	understanding.	
			Summative	
			Students will complete a Teams	
			based KO Test to summarise	
			content.	
			Within this half term students will	
			develop essential knowledge in	
			lessons and 'bring it all together', by	
			completing an in class assessment	
			 based on LO4 using a range of all	

				topics in a 1 hour formal
				assessment. Students will revisit
				this to address any misconceptions.
				Evidence can be found inside the
				physical student folders.
HT5 (A)	Fundamentals of IT	Understand ethical and	Digital Security,	Formative
		operational issues and	Physical Security,	Students will complete retrieval
		threats to computer	Threats, Ethical issues	exercises each lesson to review and
		systems	etc	recall knowledge from previous
				lessons and apply this knowledge to
				alternate scenarios to deepen
				understanding.
				Summative
				Students will complete a Teams
				based KO Test to summarise
				content.
				Within this half term students will
				develop essential knowledge in
				lessons and 'bring it all together', by
				completing an in class assessment
				based on LO5 using a range of all
				topics in a 1 hour formal
				assessment. Students will revisit
				this to address any misconceptions.
				Evidence can be found inside the
				physical student folders.
	Global Information	Understand the principles		Formative
HT5 (B)	Global mormation	onderstand the principles		

				Students will complete retrieval	
				exercises each lesson to review and	
				recall knowledge from previous	
				lessons and apply this knowledge to	
				alternate scenarios to deepen	
				understanding.	
				Summative	
				Students will complete a Teams	
				based KO Test to summarise	
				content.	
				Within this half term students will	
				develop essential knowledge in	
				lessons and 'bring it all together', by	
				completing an in class assessment	
				based on LO5 using a range of all	
				topics in a 1 hour formal	
				assessment. Students will revisit	
				this to address any misconceptions.	
				Evidence can be found inside the	
				physical student folders.	
HT6	Application Design,	Understand how	Characteristics and	Formative	
	will ask you to develop	applications are designed	features of application	Students will complete retrieval	
	and design an		development models,	exercises each lesson to review and	
	application for a		e.g.	recall knowledge from previous	
	specific user to		Waterfall model,	lessons and apply this knowledge	
	interact with.		Prince 2 etc	to alternate scenarios to deepen	
				understanding.	
			Draws on essential		
			knowledge learned in	Summative	
			KS4	Students will complete a Teams	
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	based KO Test to summarise content.
	Within this half term students will use the developed essential knowledge in lessons and 'bring it all together', by completing the ICT based "design and create" coursework element for unit 6 (interface)