

Year 12 CTEC IT Sequence



Year	Content Taught	Reference	Essential Knowledge	Assessment	Rationale
Year 12 CTEC DIT					
HT1 (A)	Fundamentals of IT	Understand computer hardware	Computer Hardware and Components, Connectivity methods etc	<p>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.</p> <p>Summative Students will complete a Teams based KO Test to summarise content.</p> <p>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.</p>	<p>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.</p> <p>Fundamentals of IT and Global Information in Yr 12 builds upon KS4 Year 11 where students have learned through Effective Digital Working Practices</p>

					how to develop knowledge, understanding and essential knowledge of how Digital Information is transmitted and kept safe. Students will gain an insight into the IT sector as they investigate the pace of technological change, IT infrastructure, the flow of information on a global scale, and the importance of legal and security considerations. This will allow the students to succeed in any career path they choose while using technology, along with helping students to succeed in Higher Education as the qualification meets the requirements that today's universities and employer's demand.
HT1 (B)	Global Information	Understand where information is held globally and how it is transmitted	Hard Drives, Routers, Modems, Computers etc	<p>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.</p> <p>Summative Students will complete a Teams based KO Test to summarise content.</p> <p>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.</p>	Student's will practically apply their essential knowledge in preparation for further study, apprenticeship or the workplace In Yr 12 Fundamentals of IT builds upon and further
HT2 (A)	Fundamentals of IT	Understand computer software	Open source, closed source, off the shelf, bespoke, shareware, freeware, embedded and productivity software	<p>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.</p>	

				<p>Summative Students will complete a Teams based KO Test to summarise content.</p> <p>Within this half term students will develop essential knowledge in lessons and ‘bring it all together’, by completing an in class assessment based on LO2 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.</p>	<p>develops the essential knowledge studied in Yr 11s Effective Digital Practices to ensure a sound understanding of IT technologies that are essential for IT professionals. Information learnt in this unit will provide a solid foundation in the fundamentals of hardware, networks, software, the ethical use of computers and how business uses IT.</p> <p>In Yr 12 Global Information 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 information sources both internally and externally and the types of information encountered. Looking at how data is</p>
HT2 (B)	Global Information	Understand the styles, classification and the management of global information		<p>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.</p> <p>Summative Students will complete a Teams based KO Test to summarise content.</p> <p>Within this half term students will develop essential knowledge in lessons and ‘bring it all together’, by completing an in class assessment</p>	

				<p>based on LO2 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.</p>	<p>stored and processed by organisations. It develops an understand the legislation and regulation governing information that flows into and out of an organisation and the constraints and limitations that apply to it.</p>
HT3 (A)	Fundamentals of IT	Understand business IT systems	Types of servers, networks, Business Systems, Virtualisation	<p>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.</p> <p>Summative Students will complete a Teams based KO Test to summarise content.</p> <p>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.</p>	<p>This will lead to students being able to gain future employment within the Computing sector, study for an apprenticeship or apply for university.</p>

HT3 (B)	Global Information	Understand the use of global information and the benefits to individuals and organisations		<p>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.</p> <p>Summative Students will complete a Teams based KO Test to summarise content.</p> <p>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.</p>	
HT4 (A)	Fundamentals of IT	Understand employability and communication essential knowledge used in an IT environment	Communication essential knowledge, Ready for work, Job roles personal attributes	<p>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.</p> <p>Summative Students will complete a Teams</p>	

				<p>based KO Test to summarise content.</p> <p>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.</p>	
HT4 (B)	Global Information	<p>Understand the legal and regulatory framework governing the storage and use of global information</p> <p>Understand the process flow of information</p>		<p>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.</p> <p>Summative Students will complete a Teams based KO Test to summarise content.</p> <p>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</p>	

				<p>topics in a 1 hour formal assessment. Students will revisit this to address any misconceptions. Evidence can be found inside the physical student folders.</p>
HT5 (A)	Fundamentals of IT	Understand ethical and operational issues and threats to computer systems	Digital Security, Physical Security, Threats, Ethical issues etc	<p>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.</p> <p>Summative Students will complete a Teams based KO Test to summarise content.</p> <p>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.</p>
HT5 (B)	Global Information	Understand the principles of information security		Formative

				<p>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.</p> <p>Summative Students will complete a Teams based KO Test to summarise content.</p> <p>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.</p>	
HT6	Application Design, will ask you to develop and design an application for a specific user to interact with.	Understand how applications are designed	<p>Characteristics and features of application development models, e.g. Waterfall model, Prince 2 etc</p> <p>Draws on essential knowledge learned in KS4</p>	<p>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.</p> <p>Summative Students will complete a Teams</p>	

				<p>based KO Test to summarise content.</p> <p>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)</p>	
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