



Year 10 ICT Medium Term Plan

Autumn Term

Learning Overview (Contents)	• Types of Digital Devices • Storage and media • Types of software • Memory (RAM and ROM) and Processors
Assessment Opportunities	Half term project
Textbooks Published Lesson Resources	Pearson Edexcel – International GSCE – Information and Communication Technology (ICT) (9-1) ISBN 978–1–4469–3881-2
Home Learning Resources	
Knowledge organisers	Unit 1 Knowledge organiser.jpg

Week Number	Learning Overview / objective (outlined above)	What should pupils know, understand and be able to do by the end of the week? (Use clear Success criteria)
1	Welcome Back And Introduction Unit 1: Digital Devices Chapter 1: Digital Devices	Introduction Expectations and Prospects Rules and Regulations Identify the uses of mainframe computers, laptops, desktops and microprocessors. Recognise types of mobile phones and how they connect to the network Identify tablet devices and their purpose

2	Unit 1: Digital Devices Chapter 1: Digital Devices	Describe the use of: • Cameras and camcorder • Games consoles • Home entertainment systems • Media players Identify the features of digital devices and associated peripherals
3	Unit 1: Digital Devices Chapter 1: Digital Devices	Recognise output peripherals and their use Identify input peripherals and their purpose Differentiate between storage devices and storage media Recognise characteristics of storage devices and media
4	Unit 1: Digital Devices Chapter 2: Software	Identify the purpose of system software and application software and their tools Understand the role of the operating system, including: • Single user and network • Memory management • Resource management • Security • Print spooling Recognise software applications including office-productivity tools and project management software.
5	Unit 1: Digital Devices Chapter 2: Software	Recognise software licensing types Identify the purpose of communication software Understand why software is updated, how is it done and possible risks Recognise the settings of ICT systems and their configuration Justify choices made in identifying and configuring hardware and software
6	Unit 1: Digital Devices Chapter 3: Memory and processors	Describe the characteristics of RAM and ROM and differentiate between them. Describe the impact on the user of the size of RAM/ ROM Describe characteristics and uses of flash memory Understand the function of the processing unit (CPU) Measure speed of a processor

7	Half term project	Unit 1: Digital Devices



Year 10 ICT Medium Term Plan

Autumn Term

Learning Overview (Contents)	• Types of networks (LAN, MAN and WAN) • Wireless communication (Wi-Fi and Bluetooth) • Data transfer and communication (wireless and wired) • Factors affecting user experience
Assessment Opportunities	End of term formal assessment
Textbooks Published Lesson Resources	Pearson Edexcel – International GSCE – Information and Communication Technology (ICT) (9-1) ISBN 978–1–4469–3881-2
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Knowledge organisers	Unit 2 Knowledge organiser

Week Number	Learning Overview / objective (outlined above)	What should pupils know, understand and be able to do by the end of the week? (Use clear Success criteria)
1	Unit 2: Connectivity Chapter 4: Digital Communication	Identify the range of ways by which digital devices communicate Compare between Local Area Network (LAN), Metropolitan Area Network (MAN) and Wide Area Network (WAN)
2	Unit 2: Connectivity Chapter 4: Digital Communication	Identify types of wireless communication Compare between Wi-Fi and Bluetooth Identify factors influencing the speed and volume of data transfer

3	Unit 2: Connectivity Chapter 4: Digital Communication	Compare between wired and wireless communication in local networks Recognize the importance of bandwidth and latency and their impact on user experience. Identify features of broadband and cellular networks
4	Unit 2: Connectivity Chapter 5: Networks	Identify network operating systems and how devices are identified on a network Compare between wired and wireless systems and their components
5	Unit 2: Connectivity Chapter 5: Networks	Recognise the role of servers in a network Differentiate between peer-to- peer and client-server networks Identify the advantages of a local area network and client – server network
6	Unit 2: Connectivity Chapter 5: Networks	Recognise the safety and security measures taken in a network like Select suitable methods of securing data for a particular context
7	End of term Formal Assessment	Unit 1: Digital Devices Unit 2: Connectivity



Year 10 ICT Medium Term Plan

Spring Term

Learning Overview (Contents)	• Risks to data and information when operating online • Types of online payment systems • Impact of ICT on employment, society and individuals
Assessment Opportunities	Half term project
Textbooks Published Lesson Resources	Pearson Edexcel – International GSCE – Information and Communication Technology (ICT) (9-1) ISBN 978–1–4469–3881-2

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Knowledge organisers	Unit 3 Knowledge organiser.jpg

Week Number	Learning Overview / objective	What should pupils know, understand and be able to do by the end of the week?
1	Unit 3: Operating Online Chapter 6: Risks to data and personal information	Be aware of risks to data and information Identify methods available to secure data online
2	Unit 3: Operating Online Chapter 6: Risks to data and personal information	Identify online payment methods Compare between different payment systems
3	Unit 3: Operating Online Chapter 7: Impact of the internet	Identify impact on employment and working practices Recognise benefits and drawbacks of working from home Compare negative and positive impacts of the internet

4	Unit 3: Operating Online Chapter 7: Impact of the internet	Identify impact on society (positive and negative) Compare between information rich and information poor
5	Unit 3: Operating Online Chapter 7: Impact of the internet	Recognise the causes and implications of unequal access to ICT locally and globally Compare impact on individuals and communities of limited or no access to digital technologies. Recognise the impact of changes on ways of socializing
6	Half Term Project	Unit 3 : Operating Online
7	Half Term Project	Unit 3: Operating Online



Year 10 ICT Medium Term Plan Spring Term

Learning Overview (Contents)	• Online communities and audience • Online sources of information and effective ways to use them • Online safety measures
Assessment Opportunities	End of Term Formal Assessment
Textbooks Published Lesson Resources	Pearson Edexcel – International GSCE – Information and Communication Technology (ICT) (9-1) ISBN 978–1–4469–3881-2
Home Learning Resources	
Knowledge organisers	Unit 3 Knowledge organiser.jpg

Week Number	Learning Overview / objective	What should pupils know, understand and be able to do by the end of the week?
1	Unit 3: Operating Online Chapter 8: Online communities	Identify features of online communities Recognise the functions and target audience of different forms of online communities
2	Unit 3: Operating Online Chapter 8: Online communities	Recognise ways in which online communities are used to communicate and collaborate on a global scale. Identify the purpose of responsible use and acceptable behaviour policies Describe ways to stay safe online
3	Unit 3: Operating Online Chapter 9 : The implications of digital technologies	Identify data protection requirements and an individual's legal rights Recognise copyright and its use in digital information and media

4	Unit 3: Operating Online Chapter 9: The implications of digital technologies	Identify sustainability issues and mitigation of environmental impact of digital devices Recognise health and safety issues that arise from use of ICT
5	Unit 3: Operating Online Chapter 10: Online information	List ways to gather information from a wide range of sources Select and use appropriate source of information Use search engines efficiently
6	Unit 3: Operating Online Chapter 10: Online information	Evaluate the fitness for purpose of available information Recognise issues relating to copyright and plagiarism
7	End of term Assessment	Unit 3: Operating Online



Year 10 ICT Medium Term Plan

Summer Term

Learning Overview (Contents)	• Online Services and their providers • Impact of online goods and services • The internet in the business world • Online and local services • Cloud – based services • Hosted and locally installed applications
Assessment Opportunities	Term Project End of Term Formal Assessment
Textbooks Published Lesson Resources	Pearson Edexcel – International GSCE – Information and Communication Technology (ICT) (9-1) ISBN 978–1–4469–3881-2

Home Learning Resources	
Knowledge organisers	Unit 4 Knowledge organiser.jpg

Week Number	Learning Overview / objective	What should pupils know, understand and be able to do by the end of the week?
1	Unit 4: Online goods and services Chapter 11: Online Services	Identify online services offered by a variety of systems and providers Differentiate between these online services
2	Unit 4: Online goods and services Chapter 11: Online Services	Recognise the impact of online goods and services on an individual's lifestyle and behaviour Identify the impact of the internet on the ways that organisations do business
3	Unit 4: Online goods and services	Recognise how transactional data is collected and used Identify targeted marketing and personalization techniques

	Chapter 11: Online Services	Compare the features and characteristics of online services and local services
4	Unit 4: Online goods and services Chapter 12: The Cloud	Identify cloud-based services Describe the impact of cloud-based services: hosted applications and storage
5	Unit 4: Online goods and services Chapter 12: The Cloud	Differentiate between the features and characteristics of hosted applications software and locally installed software
6	Unit 4: Online goods and services	Term project (Unit 4)
7	Revision for Final Assessment	Past Papers (ICT Paper 1) Revision Resources
8	Revision for Final Assessment	Past Papers (ICT Paper 1) Revision Resources
9	End of term final Assessment	Unit 1- Unit 4 (ICT Paper 1)