

Intent:

Computer studies is a subject aimed at providing learners with the skills required to engage within the digital world in which we live. Digital literacy is a part of school and everyday life and as such it is essential that all learners study computer studies in order to function within the digital world in which they live and be a functional member of society. Learner's deficient of digital skills and the qualifications needed to progress into further education or the workplace will struggle to fulfil their potential as adults within society.

Our vision is for all learners to leave Trinity Academy Newbridge with the functional skills and technological tools required for day-to-day life. We aim to develop all learners to their full potential through innovative teaching and the use of engaging activities, whilst recognising learners needs and abilities, ensuring the correct support is available to enable their learning potential is maximised. By doing so, we aim to develop the levels of digital literacy required for our learners to become capable and active members of society.

By offering functional skills tailored to each individual student, we support them in achieving at least one ICT qualification by the end of Year 11, thus enabling progression onto their next steps into further education or apprenticeships. We place high levels of importance on raising pupil confidence and ability in the use of ICT to allow for an active and responsible role within the educational environment and society, helping them to overcome any preconceptions or difficulties with ICT whilst instilling a love of the subject and learning along the way.

Implementation

•	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
	Knowledge: Unit 1 Technology E-safety	Knowledge: Unit 2: Technology	Knowledge: Unit 3 Technology	Knowledge: Unit 5: Spreadsheet	Knowledge: Unit 6:
					Programming/Scratch
	<u>Skills/Sub-units</u>	Skills/Sub-units	<u>Skills/Sub-units</u>	Skills/Sub-units	
					<u>Skills/Sub-units</u>
	1a. Introduction to school systems	2a. Explain Input, process, and	3a. Software	5a. Identify cells using rows	
	1b. Online trust	output	3b. Operating systems	and columns	6a. Data flow / Flowcharts
	1c. Staying safe online	2b. Input devices	3c. Application software	5b. Insert data and formula	6b. Sequencing
	1d. Cyber abuse	2c. Output devices	3d. Utility software	5c. Enter text and numbers	6c. Programming concepts
	1e. Smart searching	2d. Storage devices	3e. Open-source software	5d. Perform simple calculations	6e. Conditional statements
1	1f. Copyright	2e. Storage sizes	3f. Proprietary software	5e. Present data	6f. Iteration / selection
Yea	1g. Assessment	2f. Wired devices		5f. Formula replication	6g. Variables
		2g. Wireless devices		5g. Problem solving	6h. Motion control
		2h. RAM - ROM	Knowledge: Unit 4 Technology	5h. Design an formatting	6i. Assessment
		2i. CPU – Fetch Execute Cycle		5i. Assessment	
		2j. Secondary storage	<u>Skills/Sub-units</u>		
			4a. Computer Networks		
			4b. Computer Network topology		
			4c. Technology Unit Assessment		

	Summer 2	
	Knowledge: Unit 6:	
	Programming/Scratch Project	
	<u>Skills/Sub-units</u>	
	Ci. Drojact design	
	6J. Project design	
	6K. Project review	
5	6l. Project creation	
S	6m. Project evaluation	
	6n. End of Unit assessment	



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Knowledge: Unit 1 Technology /E-safety	Knowledge: Unit 2 Technology	Knowledge: Unit 3: Spreadsheets	Knowledge: Unit 4: Programming/Scratch	Knowledge: Unit 5: Web development	Knowledge: Unit 5: Web development
	<u>Skills/Sub-units</u>	<u>Skills/Sub-units</u>	<u>Skills/Sub-units</u>	<u>Skills/Sub-units</u>	<u>Skills/Sub-units</u>	<u>Skills/Sub-units</u>
	1a. Online trust	2a Pharming & Phishing	3a Use of formula	4a Sequencing	5a. Overview of HTML tags and their	5i HTML Project design
	1b. Staving safe online	2b. Antivirus Software & Firewalls	3b. Formatting	4b. Variables, data types, and operators	purpose.	5i. HTML Project review
	1c. Cyber abuse	2c. Application software	3c. Use functions to perform	4c. Use of Operators in a program	5b. Create a basic HTML document.	5k. HTML Project creation
	1d. Social media	2d. Alan Turing & Encryption	calculations	4d. Using conditional statements	5c. Formatting and Styling with CSS.	5I. HTML Project evaluation
		2c. Assessment	3d. Order and present data	4e. Count controlled iteration	5d. Apply basic formatting using CSS.	5m. End of Unit assessment
ar 8	Knowledge: Unit 1 Technology /E-safety		3e. Sort and Filter data	4f. Game design	5e. HTML tags for creating tables and	
Yea			3f. Advanced Sort and Filter	4g. Debugging a program	forms.	
	<u>Skills/Sub-units</u>		3e. Creating and edit graphs	4e. Problem solving	5f. HTML structure, tags, and common	
			3f. Financial tracking	4f. Assessment	coding errors.	
	1e. Passive & Active Attacks		3g. Assessment		5g. Design and implement a simple	
	1f. Virus, Malware & Worms				form.	
	1b Spyware & Pansomware					
	1i Network Forensics & Penetration Testing				page.	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Knowledge: Unit 1 Technology /E-safety	Knowledge: Unit 1 Technology	Knowledge: Unit 3: Spreadsheets	Knowledge: Unit 3: Spreadsheets	Knowledge: Unit 5: Functional Skills	Knowledge: Unit 5: Functional Skills
	Skills/Sub-units	Skills/Sub-units	Skills/Sub-units	Skills/Sub-units	Skills/Sub-units	Skills/Sub-units
	<u>skiis/sus units</u>	<u>Skiisysus units</u>	<u>Skiisy sub units</u>			<u>Skillsyskib ullits</u>
	1e. Networks	2a. Data Breach	3a. Applying basic mathematical	3d. Organise and sort data in spreadsheets	5a. Using the internet find and select	5i. Create a business card for an identified
	1f. Cloud Storage	2b. Firewalls, Anti-Virus, Backup	formulas in spreadsheet software.	based on specific criteria.	information.	scenario.
	1g. Cloud Computing	2c. The Data Protection Act	3b. Utilise conditional formatting in	3e. Create visual representations of data	5b. Efficient web searches	5j. Edit images
	1h. Cloud Systems	2d. The Computer Misuse Act	spreadsheets.	using graphs and charts.	5c. Website evaluation / safety	5k. Add features to images.
6	1i. Working Collaboratively	2e. Environmental Issues	3c. Use built-in functions in	3f. Create a model using spreadsheet	5d. Identify target audience.	5I. Combine text and images
ear	1j. System Attacks	2f. Assessment	spreadsheet software to perform	software to calculate calories and protein to	5e. Select and prepare text.	5m. Page layout features.
, , , , , , , , , , , , , , , , , , ,			complex calculations.	identify a good breakfast and perform	5f. Appropriate formatting	5n. Create a Flyer for an identified
				analysis using spreadsneet functions.	5g. Bullets and numbering	scenario.
				sg. End of unit assessment	Sh. Design a product for a target	50. Create a storyboard for a video.
					addience	scenario
						5g Evaluation



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
	Knowledge: Unit 1 – Find and	Knowledge: Unit 2 – Manage	Knowledge: Unit 3 – Solving technical	Knowledge: Unit 5 – Editing and	Knowledge: Unit 6 – Processing numer
	evaluate information	and store information	problems	enhancing digital media.	
EDSQ Year 10	Skills/Sub-units 1a. Search for information on digital devices. 1b. Techniques to refine searches 1c. Find Relevant information 1d. Search functionality 1e. Reliable sources of information	Skills/Sub-units 2a. Logical organisation of data 2b. The role of meta data 2c. How computers transfer and store data 2e. Digital data storage methods	Skills/Sub-units 3a. Common technical problems 3b. Resolving technical problems Knowledge: Unit 4 – Creating and editing documents editing documents	Skills/Sub-units 5a. Using images 5b. Image features 5c. Modify images / quality 5d. Using images in a document 5e. Produce a professional document with enhanced images.	Skills/Sub-units 6a. Modify data within a spreadsheet 6b. Use of tools within a spreadsheet to relevant data 6c. Use sort and filter tools to find infor in larger datasets 6d. Format cells to show data correctly 6e. Perform mathematical operations w
	1f. Sponsored links / search engines 1g. Website certificates	2f. Data back-up methods 2g. Effective use of cloud storage	Skills/Sub-units 4a. Formatting documents 4b. Adapting documents for target audience 4c. Create professional documents		spreadsheet 6f. Use formulae to automate calculatic 6g. Creating charts in spreadsheets 6h. Create a spreadsheet to manage fin data
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
FS Year 11	Knowledge: Unit 8 Transacting Digitally Skills/Sub-units 8a. Identify ways to transact online. 8b. Common online services. 8c. Manage online accounts. 8d. Online privacy 8e. Comparison websites and features 8f. Using HTTPS for financial transaction	Knowledge: Unit 9 Safe and responsible online and on digital devices Skills/Sub-units 9a.Steps to protect devices 9b. Authentication methods 9c Security of personal devices 9d. Ways to protect data 9e. Encryption and VPN 9f. Being responsible online	Knowledge: Unit 9 Safe and responsible online and on digital devices 9g. Laws and legislation 9h. Health and Safety 9i. Digital wellbeing Revision	Revision/ Mocks	Mocks

Impact

In our increasingly technological world, it is more important than ever for our pupils' to be competent and confident when using a variety of technological resources. Our aim is for all students to leave Trinity Academy Newbridge with an ICT related qualification ranging from Entry Level 1 to Level 2 functional skills in ICT.

ICT functional skills qualifications demonstrate the ability to apply digital skills efficiently and effectively within the world of work whilst potentially providing access to a range of next step options following Trinity Academy Newbridge.

The Functional Skills Level 2 qualification grants students access to a range of courses when applying to study in FE, it also provides the learner with pre-requisite qualifications needed for the Access to HE courses. Learner will also have the digital skills to pursue an apprentice route as they will have achieved digital skills that are needed within several working environments. All levels of ICT qualification studied at Trinity Academy Newbridge will support with an application for a job or apprenticeship.

	Summer 2			
erical data	Knowledge: Unit 7 – Communicating and			
	Sharing			
	chills (Cash and the			
	<u>kills/Sub-units</u>			
to show formation ly s within a tions financial	 7a. Different contexts that influence the use of online communication 7b. Types of online communication 7c. Appropriate responses using online communication 7d. Methods of online communication 7e. Modes of online communication 7f. Comparing different types of electronic communication 			
	Summer 2			