

ICT Curriculum Map

2025-2026	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Impact of Technology E Safety Account security - how to keep data secure Respectful communication Cyberbullying Recognise & Report Use presentation tools - create presentation with an audience in mind Using touch type programme	Staying Safe Online - cross curricular PSHE Safer internet day (hwb.gov.wales) Be Cyber Smart Dangers of online gaming Practices and principles for school's use of social media Online trolling Keeping safe online - avoiding fraud, hackers and exploitation Dangers of grooming - first smartphones Using touch type programme	Gaining support for a cause Features of a word processor Evaluate formatting techniques Select appropriate images for a chosen/given context Understanding of licensing issues involving online content Critique digital content for credibility Research and plan blog Promoting your cause, project based work & learning	Programming essentials in Scratch - part 1 Applying programming constructs of sequence, selection and iteration on Scratch. Using sub routines to decompose a problem that incorporates lists on Scratch Predict, run, investigate, and modify code for Scratch the cat flying game Evaluating which loop to choose to solve problems Creating and manipulating lists - Treasure Hunt game Translation quiz in Scratch	Clear messaging in digital media Poster making - capture and annotate digitally using Canva Create a brand with a logo Combine text with an image Identifying key features of a poster Using digital tools to provide feedback: feefo, trust pilot Adding content with text to slides Planning how to deliver a presentation	PBL - Using the Internet Planning a trip to London using TFL journey planner Builders toolkit on Excel Planning a Nando's /day out in London Planning a holiday Creating a Business brand and mission statement on powerpoint Creating a questionnaire/survey
Year 8	Networks Interacting with ICT for a given purpose What is a network? Topologies Networking hardware and Software Wired and wireless networks Identifying if a network is working correctly Internet, internet services and the world wide web Threats to data Using touch type programme	E-Safety: digital citizenship ICT based communications Fake news and how to identify it, biased writing, echo chambers and filter bubbles Cyberbullying Dark web Purpose of emotional manipulation Divisions in society Hate speech Keeping safe when using sites Positive use of the internet Metaverse - a question Using touch type programme	Spreadsheets Identifying columns, rows, cells, and cell references in spreadsheet software Utilising a range of formatting techniques Using cell reference Using autofill Creating charts Labelling charts Using cell data and references Analysing data Using sort and search filter Using AVE, OR & IF Conditional formatting	Desktop Publishing Words and pictures Can you edit it? Templates Becoming a designer Lay it out Why desktop publishing? Using AI	Computing Systems Differences between general purpose computing system and purpose built device Functions of hardware components Computing systems with similar architecture Analyse hardware components Define operating system Describe Not, And and OR Logic gates and truth tables Machine learning vs artificial intelligence Moral dilemmas and AI Steps for training	Databases & related terminology Creating & using databases Creating queries to find specific data Selecting, sorting & filtering data for a specific task Logical reasoning Relational databases
Year 9	Computing Systems Programs Software vs Hardware Hardware components Internal components storage devices and units RAM vs ROM	Data Science Global and local data sets Logic Overview of AI and ML Interrogating, interpreting and visualising data following the investigative cycle PDDAC Cycle(problem, plan, data, analyse, conclusion)	Binary, Hex and Bitmap Binary digits Representations Different representations for different tasks Convert a decimal number to binary and vice versa Pixels, resolution and colour depth Colour Digital image and resolutions (pixels)	Introduction to Coding Sequencing & Algorithms Loops & Repetition Conditionals (If/Else Statements) Variables & Data Project Development Project Showcase & Reflection	Design Vector Graphics Manipulating geometric shapes, union difference & intersection to combine simple shapes into more complex ones Creating monochrome icons from Scratch Creating short open-ended images Technical aspects of vector graphics	Introduction to Cyber Security Profiling Data Protection Act Computer Misuse Act Hacking Malware Protection methods such as firewalls, anti-malware, and password authentication
Year 10	Impact of Technology E Safety Account security - how to keep data secure Respectful communication Cyberbullying Recognise & Report Use presentation tools - create presentation with an audience in mind Using touch type programme	Creating and editing Selecting and using the software applications to meet needs and solve problems Applying a range of formatting and layout techniques to meet needs & purposes Integrating information Using ICT tools to check accuracy Evaluation of use of ICT tools for a specific task	Communicating Creating & sending emails, using appropriate language and formats Attaching files Managing & storing information Printing	Transacting & Being Safe Online Managing account settings for an online service Completing online forms and uploading documents or images Carrying out checks such as checking for padlock in URL, website domain appearance and reviews	Digital Functional Skills Exam Preparation and consolidation of skill for Entry Level 3	Project Based Learning/ Functional Digital Skills Using Navigation via bike, bus, car Using sateligh view and terrain view Saving locations, viewing timeline Using streetview/ Play Geo Guesser Using Canva to create a range of documents Using AI practically and responsibly
Year 11	Using devices and handling information Introduction to Digital Functional Skills Level 1 Carry out specific searches on the internet Carry out searches for files Create and use a hierarchical folder structure to organize files and use an appropriate file naming convention Save files to Cloud storage using two devices Know and appropriately use key terminology Describing data storage requirements File compression and storage capacity	Excel Level 1 - extension Microsoft applications Using field names and data types to organise information Processing & analysing data to draw conclusions Applying image formatting techniques Using IF and V-Lookup	Outlook Creating & sending emails using appropriate language and formats Attaching files Using collaborative tools Managing & storing information to enable efficient information retrieval Printing	Transacting Safely + being safe and responsible online Understanding key rights under data protection laws Knowing methods of private browsing, social media settings, settings on a mobile device to restrict Knowing how to backup files to the cloud Knowing how to avoid exposure to malware (including worms, trojans and ransomware). Knowing how to minimise the effects of health risks	Digital Functional Skills Exam Preparation and consolidation of skill for Level 1	Preparing for retakes for selected pupils Consolidation of skills for Level 1