

# ICT Curriculum Map

| 2026-2027 | Autumn 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Autumn 2                                                                                                                                                                                                                                                                                                                                                                                        | Spring 1                                                                                                                                                                                                                                                                                                                                                                | Spring 2                                                                                                                                                                                                                                                                                                                                                                                                                                        | Summer 1                                                                                                                                                                                                                                                                                                                                                                                                         | Summer 2                                                                                                                                                                                                                                                                                                   |
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| Year 7    | <b>Impact of Technology</b><br><b>E Safety</b><br>Account security - how to keep data secure<br>Respectful communication<br>Cyberbullying<br>Recognise & Report<br>Use presentation tools - create presentation with an audience in mind<br>Using touch type programme                                                                                                                                                                                                              | <b>Staying Safe Online - cross curricular PSHE</b><br>Safer internet day (hwb.gov.wales)<br>Be CyberSmart<br>Dangers of online gaming<br>Practices and principles for school's use of social media<br>Online trolling<br>Keeping safe online - avoiding fraud, hackers and exploitation<br>Dangers of grooming - first smartphones<br>Using touch type programme                                | <b>Gaining support for a cause</b><br>Features of a word processor<br>Evaluate formatting techniques<br>Select appropriate images for a chosen/given context<br>Understanding of licensing issues involving online content<br>Critique digital content for credibility<br>Research and plan blog<br>Promoting your cause, project based work & learning                 | <b>Programming essentials in Scratch - part 1</b><br>Applying programming constructs of sequence, selection and iteration on Scratch.<br>Using sub routines to decompose a problem that incorporates lists on Scratch<br>Predict, run, investigate, and modify code for Scratch the cat flying game<br>Evaluating which loop to choose to solve problems<br>Creating and manipulating lists - Treasure Hunt game<br>Translation quiz in Scratch | <b>Clear messaging in digital media</b><br>Poster making - capture and annotate digitally using Canva<br>Create a brand with a logo<br>Combine text with an image<br>Identifying key features of a poster<br>Using digital tools to provide feedback: feefo, trust pilot<br>Adding content with text to slides<br>Planning how to deliver a presentation                                                         | <b>PBL - Using the Internet</b><br>Planning a trip to London using TFL journey planner<br>Builders toolkit on Excel<br>Planning a Nando's /day out in London<br>Planning a holiday<br>Creating a Business brand and mission statement on powerpoint<br>Creating a questionnaire/survey                     |
| Year 8    | <b>Networks</b><br><b>Interacting with ICT for a given purpose</b><br>What is a network?<br>Topologies<br>Networking hardware and Software<br>Wired and wireless networks<br>Identifying if a network is working correctly<br>Internet, internet services and the world wide web<br>Threats to data<br>Using touch type programme                                                                                                                                                   | <b>E-Safety: digital citizenship</b><br><b>ICT based communications</b><br>Fake news and how to identify it, biased writing, echo chambers and filter bubbles<br>Cyberbullying<br>Dark web<br>Purpose of emotional manipulation<br>Divisions in society<br>Hate speech<br>Keeping safe when using sites<br>Positive use of the internet<br>Metaverse - a question<br>Using touch type programme | <b>Spreadsheets</b><br>Identifying columns, rows, cells, and cell references in spreadsheet software<br>Utilising a range of formatting techniques<br>Using cell reference<br>Using autofill<br>Creating charts<br>Labelling charts<br>Using cell data and references<br>Analysing data<br>Using sort and search filter<br>Using AVE, OR & IF<br>Conditional formatting | <b>Desktop Publishing</b><br>Words and pictures<br>Can you edit it?<br>Templates<br>Becoming a designer<br>Lay it out<br>Why desktop publishing?<br>Using AI                                                                                                                                                                                                                                                                                    | <b>Computing Systems</b><br>Differences between general purpose computing system and purpose built device<br>Functions of hardware components<br>Computing systems with similar architecture<br>Analyse hardware components<br>Define operating system<br>Describe Not, And and OR<br>Logic gates and truth tables<br>Machine learning vs artificial intelligence<br>Moral dilemmas and AI<br>Steps for training | <b>Databases &amp; related terminology</b><br>Creating & using databases<br>Creating queries to find specific data<br>Selecting, sorting & filtering data for a specific task<br>Logical reasoning<br>Relational databases                                                                                 |
| Year 9    | <b>Computing Systems</b><br>Programs<br>Software vs Hardware<br>Hardware components<br>Internal components<br>Storage devices and units<br>RAM vs ROM                                                                                                                                                                                                                                                                                                                               | <b>Data Science</b><br>Global and local data sets<br>Logic<br>Overview of AI and ML<br>Interrogating, interpreting and visualising data following the investigative cycle<br>PDDAC Cycle( problem, plan, data, analyse, conclusion)                                                                                                                                                             | <b>Binary, Hex and Bitmap</b><br>Binary digits<br>Representations<br>Different representations for different tasks<br>Convert a decimal number to binary and vice versa<br>Pixels, resolution and colour depth<br>Colour<br>Digital image and resolutions (pixels)                                                                                                      | <b>Introduction to Coding</b><br>Sequencing & Algorithms<br>Loops & Repetition<br>Conditionals (If/Else Statements)<br>Variables & Data<br>Project Development<br>Project Showcase & Reflection                                                                                                                                                                                                                                                 | <b>Design Vector Graphics</b><br>Manipulating geometric shapes, union difference & intersection to combine simple shapes into more complex ones<br>Creating monochrome icons from Scratch<br>Creating short open-ended images<br>Technical aspects of vector graphics                                                                                                                                            | <b>Introduction to Cyber Security</b><br>Profiling<br>Data Protection Act<br>Computer Misuse Act<br>Hacking<br>Malware<br>Protection methods such as firewalls, anti-malware, and password authentication                                                                                                  |
| Year 10   | <b>Impact of Technology</b><br><b>E Safety</b><br>Account security - how to keep data secure<br>Respectful communication<br>Cyberbullying<br>Recognise & Report<br>Use presentation tools - create presentation with an audience in mind<br>Using touch type programme                                                                                                                                                                                                              | <b>Creating and editing</b><br>Selecting and using the software applications to meet needs and solve problems<br>Applying a range of formatting and layout techniques to meet needs & purposes<br>Integrating information<br>Using ICT tools to check accuracy<br>Evaluation of use of ICT tools for a specific task                                                                            | <b>Communicating</b><br>Creating & sending emails, using appropriate language and formats<br>Attaching files<br>Managing & storing information<br>Printing                                                                                                                                                                                                              | <b>Transacting &amp; Being Safe Online</b><br>Managing account settings for an online service<br>Completing online forms and uploading documents or images<br>Carrying out checks such as checking for padlock in URL, website domain appearance and reviews                                                                                                                                                                                    | <b>Digital Functional Skills</b><br><b>Exam Preparation and consolidation of skill for Entry Level 3</b>                                                                                                                                                                                                                                                                                                         | <b>Project Based Learning/ Functional Digital Skills</b><br>Using Navigation via bike, bus, car<br>Using satelight view and terrain view<br>Saving locations, viewing timeline<br>Using streetview/ Play Geo Guesser<br>Using Canva to create a range of documents<br>Using AI practically and responsibly |
| Year 11   | <b>Using devices and handling information</b><br>Introduction to Digital Functional Skills Level 1<br>Carry out specific searches on the internet<br>Carry out searches for files<br>Create and use a hierarchical folder structure to organize files and use an appropriate file naming convention<br>Save files to Cloud storage using two devices<br>Know and appropriately use key terminology<br>Describing data storage requirements<br>File compression and storage capacity | <b>Excel Level 1 - extension</b><br><b>Microsoft applications</b><br>Using field names and data types to organise information<br>Processing & analysing data to draw conclusions<br>Applying image formatting techniques<br>Using IF and V-Lookup                                                                                                                                               | <b>Outlook</b><br>Creating & sending emails using appropriate language and formats<br>Attaching files<br>Using collaborative tools<br>Managing & storing information to enable efficient information retrieval<br>Printing                                                                                                                                              | <b>Transacting Safely + being safe and responsible online</b><br>Understanding key rights under data protection laws<br>Knowing methods of private browsing, social media settings, settings on a mobile device to restrict<br>Knowing how to backup files to the cloud<br>Knowing how to avoid exposure to malware (including worms, trojans and ransomware).<br>Knowing how to minimise the effects of health risks                           | <b>Digital Functional Skills</b><br><b>Exam Preparation and consolidation of skill for Level 1</b>                                                                                                                                                                                                                                                                                                               | <b>Preparing for retakes for selected pupils</b><br><b>Consolidation of skills for Level 1</b>                                                                                                                                                                                                             |