

KS3 - ICT/Computing Curriculum Map (Year 7 & 8)

Term/ Topic	Autumn Term 1: E-Safety, Using Computers and the Internet	Autumn Term 2: Hardware, Software and Memory	Spring Term 1: Word Processing and Presentation Software	Spring Term 2: Legal Framework and Creative Project	Summer Term 1: Game Design in Scratch	Summer Term 2: Introduction to the MicroBit
Lessons	1. Importance of ICT and File Management 2. Computer Safety 3. Internet Safety 4. Using the Internet and Web Browsers 5. Using Email 6. Digital Footprint	1. Types of Hardware 2. Input and Output Devices 3. Memory and Secondary Storage 4. The Role of an Operating System 5. Types of Software and Appropriate Use 6. Problem Solving (Progress Task)	1. Microsoft Word (Features and Tools) 2. Using Software for Purpose and Audience 3. Evaluation and Performance Review 4. Microsoft PowerPoint (Features and Tools) 5. Using Software for Purpose and Audience 6. Using Software for Purpose and Audience	1. Legal Framework & Copyright 2. Canva (Features and Tools) 3. Canva (Benefits and Tools) 4. Canva (Inserting Images) 5. Canva (Combining Features and Content) 6. Evaluation and Progress Task	1. Introducing Variables 2. Variables in Programming 3. Improving a Game 4. Becoming a Games Designer 5. Design to Code 6. Improving and Sharing	1. The Micro:bit 2. Go With The Flow 3. Sensing Inputs 4. Finding Your Way 5. Designing a Step Counter 6. Making a Step Counter
Curriculum Links (Edexcel)	1.3.1 - Logical Operators 3.2.1 - File Management 5.3.1 - Threats to Digital Systems	3.1.1 - Main Memory 3.1.2 - Secondary Storage 3.2.1 - Operating Systems	1.1.1 - Decomposition and Abstraction	1.1.1 - Decomposition and Abstraction 5.2.3 - Copyright	1.2.1 - Algorithms 1.2.2 - Variables 3.3.1 - Programming Language 6.1.5 - Program Errors	1.2.7 - Logical Reasoning 3.3.1 - Programming Language 6.1.5 - Program Errors 6.2.1 - Sequence and Selection
Useful Websites	https://scratch.mit.edu/ https://teachcomputing.org https://www.gov.uk/government/publications/education-for-a-connected-world					

Year 9 - ICT Curriculum Map

Term/ Topic	Autumn Term 1: Using Technology Safely	Autumn Term 2: Computer Networks	Spring Term 1: Modelling Data Using Spreadsheets	Spring Term 2: Legal Framework & Creative Project	Summer Term 1: Introduction to Python Programming	Summer Term 2: Visual Computing - Halo HDs
Lessons	1. What is Technology? 2. Safety Concerns 3. Online Reputation 4. Impact of Technology and Social Media on Young People 5. Impact of Technology on the Environment 6. Protective Actions	1. What is a Computer Network? 2. The Client-Server Model 3. Network Hardware 4. Network Topologies 5. Wired and Wireless Transmission Media 6. Protecting a Network	1. Getting to Know a Spreadsheet 2. Quick Calculations 3. Collecting Data 4. Become a Data Master (Using Functions) 5. Level Up Your Data Skills 6. Problem Solving	1. Legal Framework & Copyright 2. Canva (Features and Tools) 3. Canva (Benefits and Tools) 4. Canva (Inserting Images) 5. Canva (Combining Features and Content) 6. Evaluation and Progress Task	1. First Steps 2. Crunching Numbers 3. At a Crossroads 4. More Branches 5. Round and Round 6. Putting it all Together	1. Introduction to the Halo HD 2. Animations and Sequences 3. Iteration and Loops 4. User Input and Selection 5. Visualising Data 6. Final Project
Curriculum Links (Edexcel)	5.1.1 - Environmental Issues 5.3.1 - Threats to Digital Systems 5.3.2 - Protecting Digital Systems	4.1.1 - Computer Networks 4.1.2 - Types of Network 4.1.3 - Network Structure 4.1.4 - Wired and Wireless Connectivity 4.1.8 - Network Topologies 4.2.1 - Network Security	1.1.1 - Decomposition and Abstraction	1.1.1 - Decomposition and Abstraction 5.2.3 - Copyright	1.2.1 - Algorithms 1.2.2 - Variables 1.2.5 - Understand Program Errors 3.3.1 - Programming Language 6.1.5 - Correct Program Errors 6.5.1 - Arithmetic Operators	5.2.1 - Ethical and Legal Issues with Personal Data 5.2.2 - Ethical and Legal Issues with AI
Useful Websites	https://teachcomputing.org https://kitronik.co.uk/pages/resources https://www.gov.uk/government/publications/education-for-a-connected-world https://www.gimp.org/downloads/					

Year 10 - Digital Skills Curriculum Map

Term/ Topic	Autumn Term 1: Using Devices and Handling Information	Autumn Term 2: Using Devices and Handling Information	Spring Term 1: Creating and Editing	Spring Term 2: Creating and Editing	Summer Term 1: Communicating and Transacting	Summer Term 2: Being Safe and Responsible Online
Lessons	1. Using Devices and Handling Information 2. Searching the Internet 3. Currency, Reliability and Copyright 4. Sponsored Results and Advertisements 5. Searching for Files 6. Hierarchical Folder Structure	7. Saving Files 8. Terminology 9. Storage and Data Transfer 10. Technical Problems 11. Solutions 12. Progress Task	1. Audience and Purpose 2. Application Software 3. Layout Conventions 4. Formatting Information 5. Editing an Image 6. Numeric Data	1. Using Formulae 2. Process Numeric Data 3. Formatting Numeric Data 4. Creating Charts 5. Formatting Charts 6. Progress Task	1. Using Email 2. Online Messages 3. Digital Footprint 4. Account Settings 5. Online Forms 6. Risks to Online Transactions	1. Key Rights 2. Personal Data 3. Protecting Personal Information 4. The Cloud 5. Malware 6. Minimising the Effects of Risks
Curriculum Links (Edexcel)	2.1.1 - Binary 2.3.2 - Data Compression 3.1.1 - Main Memory 3.1.2 - Secondary Storage 3.2.1 - File Management 5.2.3 - Copyright	2.3.1 - Data Terminolgy 2.3.2 - Data Compression 3.1.1 - Main Memory 3.1.2 - Secondary Storage 3.2.1 - File Management	1.1.1 - Decomposition and Abstraction 2.2.2 - Bitmap Images	1.1.1 - Decomposition and Abstraction 2.2.2 - Bitmap Images	2.3.2 - Data Compression 5.1.1 - Environmental Issues	5.2.1 - Ethical and Legal Issues with Personal Data 5.3.2 - Ptecting Digital Systems and Data
Useful Websites	https://qualifications.pearson.com/en/qualifications/edexcel-functional-skills/digital-2023.html#%2Ftab-Level1 https://www.dropbox.com/home					

Year 11 - Digital Skills Curriculum Map

Term/ Topic	Autumn Term 1: Using Devices and Handling Information	Autumn Term 2: Using Devices and Handling Information	Spring Term 1: Creating and Editing	Spring Term 2: Creating and Editing	Summer Term 1: Communicating and Transacting	Summer Term 2: Being Safe and Responsible Online
Lessons	1. Using Devices and Handling Information 2. Searching the Internet 3. Currency, Reliability and Copyright 4. Sponsored Results and Advertisements 5. Searching for Files 6. Hierarchical Folder Structure	7. Saving Files 8. Terminology 9. Storage and Data Transfer 10. Technical Problems 11. Solutions 12. Progress Task	1. Audience and Purpose 2. Application Software 3. Layout Conventions 4. Formatting Information 5. Editing an Image 6. Numeric Data	1. Using Formulae 2. Process Numeric Data 3. Formatting Numeric Data 4. Creating Charts 5. Formatting Charts 6. Progress Task	1. Using Email 2. Online Messages 3. Digital Footprint 4. Account Settings 5. Online Forms 6. Risks to Online Transactions	1. Key Rights 2. Personal Data 3. Protecting Personal Information 4. The Cloud 5. Malware 6. Minimising the Effects of Risks
Curriculum Links (Edexcel)	2.1.1 - Binary 2.3.2 - Data Compression 3.1.1 - Main Memory 3.1.2 - Secondary Storage 3.2.1 - File Management 5.2.3 - Copyright	2.3.1 - Data Terminolgy 2.3.2 - Data Compression 3.1.1 - Main Memory 3.1.2 - Secondary Storage 3.2.1 - File Management	1.1.1 - Decomposition and Abstraction 2.2.2 - Bitmap Images	1.1.1 - Decomposition and Abstraction 2.2.2 - Bitmap Images	2.3.2 - Data Compression 5.1.1 - Environmental Issues	5.2.1 - Ethical and Legal Issues with Personal Data 5.3.2 - Ptecting Digital Systems and Data
Useful Websites	https://qualifications.pearson.com/en/qualifications/edexcel-functional-skills/digital-2023.html#%2Ftab-Level1 https://www.dropbox.com/home					

Year 11 - ICT Curriculum Map

Term/ Topic	Autumn Term 1: Level 1 Digital Skills: Being Safe and Responsible Online	Autumn Term 2: Revision and Exam Prep	Spring Term 1: Artificial Intelligence	Spring Term 2: Visual Computing - Halo HDs	Summer Term 1: Creating a CV	Summer Term 2: Careers
Lessons	1. Key Rights 2. Personal Data 3. Protecting Personal Information 4. The Cloud 5. Malware 6. Minimising the Effects of Risks	1. Email 2. Formatting in Excel 3. Formulas and Functions 4. Creating Charts 5. Practice Exam 6. Assessment	1. Thinking Machines 2. History of Artificial Intelligence 3. AI Developments 4. AI Consequences 5. Ethics and AI 6. The Future of AI	1. Introduction to the Halo HD 2. Animations and Sequences 3. Iteration and Loops 4. User Input and Selection 5. Visualising Data 6. Final Project	1. Legal Framework & Copyright 2. Canva (Features and Tools) 3. Canva (Benefits and Tools) 4. Canva (Inserting Images) 5. Canva (Combining Features and Content) 6. Evaluation and Progress Task	1. Next Steps/Exploring Pathways 2. Action Plan and SMART Goals 3. CV Writing 4. Cover Letter Writing 5. Application Workshop 6. Money Matters
Curriculum Links (Edexcel)	5.2.1 - Ethical and Legal Issues with Personal Data 5.3.2 - Protecting Digital Systems and Data	1.1.1 - Decomposition and Abstraction	5.2.1 - Ethical and Legal Issues with Personal Data 5.2.2 - Ethical and Legal Issues with AI	5.2.1 - Ethical and Legal Issues with Personal Data 5.2.2 - Ethical and Legal Issues with AI	1.1.1 - Decomposition and Abstraction 5.2.3 - Copyright	1.1.1 - Decomposition and Abstraction 3.2.1 - File Management
Useful Websites	https://teachcomputing.org https://kitronik.co.uk/pages/resources					