## Computing Progression - Year I (2023-24)

- A) understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- **B)** create and debug simple programs
- **C)** use logical reasoning to predict the behaviour of simple programs
- **D)** use technology purposefully to create, organise, store, manipulate and retrieve digital content
- **E)** recognise common uses of information technology beyond school
- F) use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Topic	All Creatures Great and Small	Fire! Fire!	Whatever the Weather	Flora Explorers!	No Place Like Home	Swingin' Sixties
NC Objectives	E, F	D, E	D, E	A, B	D, E	A, B
Computing Unit	Keeping Safe & Exploring Technology	Exploring Digital Sound	Making Multimedia Stories	Action Algorithms	An Introduction to Digital Art	Programming Direction
Strand	Digital Literacy	Digital Literacy  • Multimedia  ○ Sound  ○ Art and Design  ○ Text	Digital Literacy  Multimedia  Text  Art and Design  Animation  Sound	Computer Science  • Computational thinking	Digital Literacy  • Multimedia  • Art and Design	Computer Science  • Control and Programming
Prior Learning	This builds on work in EYFS where they explore a range of control equipment and have early conversations and stories about being safe when using electronic devices and going online.	This builds on exploring sound and music with instruments in EYFS.	This builds upon a rich background of enjoying stories in EYFS, where they have listened to, planned and come up with ideas for their own stories.  Exploring Digital Sound - YI Spr1	This builds on sequencing and sorting activities in EYFS.	This builds on experimentation with drawing simple pictures in EYFS, both on paper and using digital devices. It supports the development of mouse skills.	This builds on sequencing and sorting activities and opportunities they have had to experiment with control devices in EYFS.  Action algorithms  — YI Sum1
Key Vocab	Control Digital citizen Digital media Internet Media Media balance Media choices Network Online Private information Server World Wide Web	Digital Digital content Edit Evaluation Layer Online Save Timeline	Alter Animation Digital content Edit Format (text) Import Media Multimedia Save	Algorithm Command Condition Control Debug Decomposition Execute Logic Logical reasoning Program Repetition/Loop Selection Sequence	Alter Edit Evaluation Flood fill Multimedia Online Save Software	Algorithm Block Command Control Debug Decomposition Edit Execute Logic Logical reasoning Program Repetition/Loop Save Sequence
Basic Skills	(Modelled as a class)  • Login  • Logout  • Find a document (within Purple Mash)  • Save	Login Logout Find a document (within Purple Mash) Save	Login Logout Find a document (within Purple Mash) Save Type with 2 hands Highlight Text Change font style Change font to bold	<ul> <li>[Non-computer-based unit]</li> <li>Login</li> <li>Logout</li> <li>Find a document (within Purple Mash)</li> <li>Type with 2 hands</li> <li>Shift for Capital Letter</li> <li>Shift for!?</li> </ul>	Login Logout Find a document (within Purple Mash) Save Type with 2 hands Shift for Capital Letter Shift for!? Undo (using button)	Login Logout Find a document (within Purple Mash) Save Type with 2 hands Shift for Capital Letter Shift for!? Undo (using button)

Programs Used Save	IWB in classroom	Peg and Cat Music Maker ABCYa Melody maker Electronic Drum Kit Keezy App (ipad) Purple Mash:  • 2Explore • 2Beat • 2Create a Story  Purple Mash Within Software/Journal	Underline text     Align text (left, centre)     Shift for Capital Letter     Shift for!?     Undo (using button)  Purple Mash:     2Type     2Paint     2Paint A Picture     2Publish  Purple Mash	IWB in classroom • Paper-based	Purple Mash:  • 2Paint a Picture ABCYa.com bomomo.com klowdz.com  Purple Mash Within Software/Journal	Bee-bots Purple Mash: • 2Go • 2Logo  Journal Purple Mash
Location	Know when and why to take breaks from device time.     Consider the feelings of	Explore making simple sounds     Explore a range of electronic music and sound devices and	Begin to use two hands for typing     Develop correct use of the	To know what an algorithm is To write an algorithm To use an algorithm	Look at the differences between a computer art and paper based art	Understand what an algorithm is     Give clear unambiguous
Objectives	people around them, even when engaged in fun online activities.  Discover that the internet can be used to visit faraway places and learn new things. Compare how staying safe online is similar to staying safe in the real world. Explain rules for traveling safely on the internet. To recognise common uses of technology in the home To understand what the internet is To recognise devices that can be connected to the internet To understand how shops might use technology To explain how technology can help people To explore control technology devices To explain how a control device works To compare different types of control devices	software.  To combine layers of sound to compose a simple tune with a beat.  Create images to accompany a soundtrack.  Import sound files to create multimedia pages.  To create a soundtrack that matches the mood of an image  Understand that sound can be recorded digitally  Understand that sound can be edited digitally	keyboard, including the space bar, backspace, delete, shift (for capital letters – not caps lock) and enter keys.  Name parts of a computer  Add text to a text box  Make simple changes to selected text, e.g. colour, style and size.  Add a picture to a picture box  Use drawing tools effectively (e.g. make use of tools such as fill or shape tools).  Add animation effects to a page  Add animationLogo effects to individual objects on a page.  Be able to select and listen to a sound from a bank of prerecorded sounds.  Select or record sounds to add to work.  Add navigation buttons to a presentation	<ul> <li>To improve an algorithm</li> <li>To write an algorithm for a recipe</li> <li>To understand and explain debugging</li> <li>To be able to debug an algorithm</li> <li>To write an algorithm for sharing</li> <li>To spot patterns in algorithms</li> <li>To write an algorithm for an action sequence</li> <li>To understand that computers follow programming languages or 'code'</li> <li>To write an algorithm for a dance routine</li> <li>To give clear, unambiguous instructions</li> </ul>	Use different tools to create a simple picture  Understand there are a variety of tools in a paint package, each for a different purpose.  Talk about your use of a graphics package and your choices of tools.  Compare two similar paint packages.  Use shape, line and colour to create an artistic style:  Impressionism.  Pointillism  Modern Art  Street Art  Use different tools in a digital paint package for good effect.	instructions  Make predictions when giving instructions  Create algorithms for directions  Debug simple programs  Create algorithms for directions including turning  Begin to create algorithms with a written programming language

## Computing Progression - Year 2 (2023-24)

- A) understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- **B)** create and debug simple programs
- **C)** use logical reasoning to predict the behaviour of simple programs
- **D)** use technology purposefully to create, organise, store, manipulate and retrieve digital content
- **E)** recognise common uses of information technology beyond school
- F) use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Topic	Where in the World?	Track to the Future!	Ní Hao	Up, Up and Away!	The Jolly Artist	Where the Land Meets the Sea
	D, E, F	D, F	A, B, C, D	D, E.	A, B, C	D, E, F
	Keep Safe and Create	Introduction to Animation	Programming with Scratch Jr	Writing in Different Styles	Programming with Logo	Finding and Presenting Information
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	Digital Literacy  Online Safety  Multimedia  Text Sound Art and Design	Digital Literacy  • Multimedia  ○ Animation  ○ Art and Design	Computer Science	Digital Literacy  • Multimedia  ○ Text  ○ Art and Design	Computer Science • Control and Programming	Information Technology
	Keeping safe and exploring technology – YI  An introduction to digital art YI  Making multimedia stories – YI	Making multimedia stories - Y!  [An introduction to digital art (digital drawing skills) - Y!]	Action algorithms – YI  Programming direction – YI  Introduction to animation – Y2 Aut2	Making multimedia stories - YI  [An introduction to digital art (digital drawing skills) - YI]	Action algorithms – YI  Programming direction – YI  Programming with Scratch Jr – Y2 Spr I	Keeping safe and exploring technology – YI
	Control Digital citizen Digital media Internet Media Media balance Media choices Network Online Private information Server World Wide Web	Alter Animation Capture Export Edit Evaluate Frame Onion Save	Algorithm Block Broadcast Command Control Debug Edit Logical reasoning Program Save Sequence Sprite	Alter Copyright Digital content Edit Format (text) Import Media Save	Algorithm Command Control Debug Decomposition Edit Logical reasoning Procedure Program Repetition/Loop Save Sequence	Database Edit Evaluation Format (text) Information Internet Network Online Save Search Server World Wide Web
	Login Logout Find a document (within Purple Mash) Save Type with 2 hands Change font style Change font to bold Change font to italics Underline text Align text (left, centre)	<ul> <li>Login</li> <li>Logout</li> <li>Find a document (within Purple Mash)</li> <li>Save</li> <li>Type with 2 hands</li> <li>Shift for Capital Letter</li> <li>Shift for !?</li> <li>Undo (using button)</li> </ul>	Find a document (within Scratch Jr)  Save  Undo (using button)	Login Logout Find a document (within Purple Mash) Save Type with 2 hands Highlight Text Change font style Change font obold Change font to italics Underline text Align text (left, centre)	Login Logout Find a document (within Purple Mash) Save Type with 2 hands Shift for Capital Letter Shift for !? Undo (using button)	Login Logout Find a document (within Purple Mash) Save Print Type with 2 hands Highlight Text Change font style Change font size Change font to bold Change font to italics Underline text

Programs Used	Shift for!?     Undo (using button)  Google Chrome 2Do It Yourself     2Survey	Purple Mash:  • 2Type  • 2Animate iMotion (iPads)	Scratch Jr (iPads)	Shift for Capital Letter Shift for !? Copy text (Ctrl C) Paste text (Ctrl V) Undo (using button)  Purple Mash: 2Type 2Publish	Purple Mash:  • 2Type • 2Logo	Align text (left, centre) Shift for Capital Letter Shift for!? Copy text (Ctrl C) Paste text (Ctrl V) Undo (using button)  Purple Mash: 2Type 2Publish+ 2Count 2Question 2Graph 2Investigate Google Chrome
Save Location	Purple Mash	Purple Mash (2Animate) Numbered iPads (iMotion)	Numbered iPads	Purple Mash	Purple Mash	Purple Mash
	<ul> <li>Understand the importance of being safe, responsible and respectful online.</li> <li>Learn the "Pause &amp; Think Online" song to remember basic digital citizenship concepts.</li> <li>Import images into multimedia resources to share ideas to engage others.</li> <li>Add and format text appropriately for multimedia resources.</li> <li>Recognise the different kinds of feelings they can have when using technology.</li> <li>Know what to do when they don't have a good feeling when using technology.</li> <li>Create an interactive survey to gather other people's opinions.</li> <li>Understand that being safe online is similar to staying safe in real life.</li> <li>Learn to identify websites and apps that are "just right" and "not right" for them.</li> <li>Know how to get help from an adult if they are unsure about a website.</li> <li>Create an interactive educational game.</li> </ul>	<ul> <li>To understand that animation is a collection of still images to make moving images.</li> <li>To explain what a frame is</li> <li>To create a simple 2D animation in 2Animate</li> <li>To use a variety of drawing tools in 2Animate appropriately</li> <li>Improve the quality of animations with onion skinning and the select tool</li> <li>To successfully create longer and more detailed animations using backgrounds and sound effects in 2Animate</li> <li>To compare 2D and stop motion animation.</li> <li>To create a smooth stop motion animation in iMotion by moving objects in small steps</li> <li>To make two or more figures interact in a stop motion animation in iMotion.</li> <li>To plan and tell a simple story with stop motion animation in iMotion.</li> </ul>	Create and debug simple programs Program the movement and appearance of an on-screen sprite Use logical reasoning to predict the behaviour of simple programs Program sprites to create a short animation Program a number of sprites to move together Investigate different ways of triggering movement with code Program two sprites to interact with each other Program scene changes in an animation Design and program a maze game Create your own sprites appropriate for your game Use messaging to control sprites in a game	<ul> <li>Begin to use two hands for typing</li> <li>To understand and use good posture when typing</li> <li>To understand and use Caps Lock and Shift appropriately for typing capital letters.</li> <li>To apply simple formatting to text</li> <li>To import images into 2Publish</li> <li>To use keyboard shortcuts to work more efficiently</li> <li>Use speech bubbles, thought bubbles and text boxes in 2Publish</li> <li>Combine images and text 2Publish</li> <li>To design your own layout for a document in 2Publish</li> </ul>	To understand that Logo is a programming language To understand that computers need precise, unambiguous commands To give simple commands using Logo To decompose a bigger problem into smaller parts To know and use Logo pen up/down and colour commands To use repeat commands in Logo to draw regular shapes Use logical reasoning to predict what a simple program will do To create and understand a Logo procedure To combine procedures together	<ul> <li>Use and explore appropriate buttons, arrows, menus and hyperlinks to navigate a website.</li> <li>Understand a website has a unique address and the need for precision when typing it.</li> <li>Know what to do and who to tell if they see something inappropriate on a website.</li> <li>Using keywords to safety search a specific resource for information.</li> <li>Locate specific websites by typing a website address into the address bar.</li> <li>Begin to evaluate web sites by giving opinions about preferred or most useful sites.</li> <li>Use simple graphing software to produce pictograms and other basic tables or graphs.</li> <li>Use graphing software to enter data and change a graph type, e.g. pictogram to bar chart.</li> <li>Interpret and draw conclusions from graphs, discuss information contained and answer simple questions.</li> <li>Sort and classify a group of items by asking simple yes / no questions.</li> <li>Develop classification skills by carrying out sorting activities</li> <li>Use a database program, where appropriate, to sort and identify items.</li> <li>Use basic search tools in a prepared database to answer simple questions, e.g., how many children have brown hair?</li> </ul>

## Computing Progression - Year 3 (2023-24)

- A) design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- B) use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- C) use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- D) understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- E) use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- F) select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- G) use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Topic	Digging up the past	Polar Explorers	Root and Grow	Scuttle and Spikes	Rotten Romans	Highland & Islands
NC Objectives	E, F, G	А, В, С	F	А, В, С	D, F	А, В, С
Computing Unit	Digital Literacy and Online Safety (Y3)	Starting from Scratch	Digital Imagery: Patterns in Nature	Lego WeDo: Mechanisms and Machines	Databases	Getting Started with Kodu
Strand	Digital Literacy Online Safety	Computer Science	Digital Literacy  • Multimedia  ○ Art and Design  ○ Video	Computer Science  • Control and Programming  Link to Work in DT this term.	Information Technology	Computer Science  Control and Programming Digital Literacy Multimedia Art and Design
				Action algorithms – YI		Action algorithms – YI
		Action algorithms – YI		Programming direction – YI		Programming direction – YI
Prior Learning	Keeping safe and exploring technology – YI Keep Safe and Create – Y2	Programming direction – YI  Programming with Scratch	An introduction to digital art – YI	Programming with Scratch Jr – Y2	Finding and Presenting Information – Y2	Programming with Scratch Jr – Y2
8	Reep Sale and Create – 12	Jr – Y2  Programming with Logo - Y2		Programming with Logo - Y2 Starting from Scratch - Y3 Aut2		Programming with Logo - Y2 Starting from Scratch - Y3 Aut2
Key Vocab	Attention Community Concentration Credit Digital footprint Distraction Internet Online Permanent Private Private information Respect	Abstraction Algorithm Block Blocks Palette — (in Scratch) Command Coordinate (noun) Costume Debug Decomposition Execute Input Logical reasoning Output Program Repetition/Loop Script Selection Sequence Sprite Stage — (in Scratch)	Alter Attribute Copyright Digital content Edit Evaluation Export Hue Intellectual property Import Layer Photo retouching Saturation Save Search Software Web browser	Abstraction Algorithm Block Blocks Palette Command Debug Decomposition Execute Input Logical reasoning Output Program Repetition/Loop Sensor Sequence	Cloud storage Collaboration Data Database Edit Evaluation Export Field Import Rank Record Save Search	Algorithm Block Command Debug Decomposition Execute Input Logical reasoning Output Program Selection Sequence Sprite Variables
Basic Skills	Login     Logout     Finding a document on     'Shared'	Login     Logout     Finding a document within     Scratch	Login Logout Finding a document on 'Shared'	Robot based unit	Login     Logout     Finding a document on     'Shared'	Login     Logout     Finding a document in Kodu     File Save As

	File Save As File Print  File Print	Type using 2 hands Highlight All - Ctrl A Shift Capital Letter Undo – Ctrl Z	File Save As File Print Highlight All - Ctrl A Copy text - Ctrl C Paste text - Ctrl V Cut Text - Ctrl X Undo - Ctrl Z		File Save As File Print Type using 2 hands Highlight Text Highlight All - Ctrl A Change font style Change font to bold - Ctrl B Change font to italics - Ctrl I Underline text - Ctrl U Align text (left, centre, right, justified) Shift Capital Letter Shift for Special Characters (?!ӣ&*@:) Copy text - Ctrl C Paste text - Ctrl X Undo - Ctrl Z	Type using 2 hands Highlight All - Ctrl A Copy text - Ctrl C Paste text - Ctrl V Cut Text - Ctrl X Undo - Ctrl Z
Programs Used	Google Chrome IWB in class	Scratch (in Web Browser)	Purple Mash: • 2Paint a Picture Pixlr.com Windows Video Editor	Lego WeDo	Microsoft Forms/Google Sheets Purple Mash: • 2Investigate	Kodu (downloaded)
Save Location	Journal	Within Scratch (sign in)	Purple Mash Within Pixlr.com (sign in) School Shared Drive	Within Lego Wedo Journal	Microsoft Forms/Google Sheets Purple Mash	Within Kodu
Objectives	Recognise the ways in which digital devices can be distracting.  Identify how they feel when others are distracted by their devices.  Identify ideal device-free moments for themselves and others.  Recognise the kind of information that is private.  Understand that they should never give out private information online.  Know that the information they share online leaves a digital footprint or "trail"  Explore what information is OK to be shared online  Compare and contrast how they are connected to different people and places, in person and on the internet  Demonstrate an understanding of how people can connect on the internet  Understand what online meanness can look like and how it can make people feel	To understand and explain key vocabulary linked to programming. To become familiar with the Scratch programming environment (blocks, sprites, stage, canvas, controls). To understand and use coordinates in programming. To accurately read, predict and explain visual code. Suggest changes to existing code. Use logic to debug existing code and explain your changes. Modify existing code for a particular purpose and explain your changes. To sequence a series of commands accurately and in the most efficient way. To understand and explain different types of loops in code, the differences between them and when you would use them. To add and use different types of loops in code to achieve a desired outcome.	<ul> <li>Acquire, store and retrieve images from devices or the Internet for a purpose.</li> <li>Understand the need for caution when using the Internet to search for images and what to do if they find unsuitable images (see and use AUP)</li> <li>Create images using a range of techniques to develop a particular style.</li> <li>Compare and contrast different art software or webbased tools.</li> <li>Use a lasso tool to select specific areas of an image.</li> <li>Use effects in photomanipulation software to edit, change or enhance an image.</li> <li>Independently download and save images or video onto a computer.</li> <li>Independently upload images or video for use in editing software.</li> <li>Be able to resize various elements in a graphics or paint package.</li> </ul>	<ul> <li>To understand and use mechanical systems (motors, gearing systems, cams, pulley and belts and levers)</li> <li>To explain how motors and gears create motion</li> <li>To create simple algorithms to control mechanisms</li> <li>To explain how different gearing systems and cams create motion</li> <li>To understand and explain how sensors can be used to control mechanisms</li> <li>To design, build and program models that use sensors to control a mechanism</li> <li>To combine several mechanisms in a single machine build</li> <li>To explain how mechanisms combine to make a machine work</li> <li>To understand and use loops, randomisation and sensors in an algorithm</li> <li>To use a range of inputs to start an algorithm that controls a machine</li> </ul>	<ul> <li>To understand and explain what a database is</li> <li>To identify records and fields of a database.</li> <li>To identify advantages and disadvantages of using databases.</li> <li>To select appropriate data to add to a database</li> <li>To create a collaborative class database</li> <li>To search and sort a database</li> <li>To insert records into a database.</li> <li>To insert information into fields of a database.</li> <li>To look through a database to find information. Think, discuss and try different searching methods.</li> <li>To make a chart from information in a database.</li> <li>To be able to read and compare information on a chart.</li> <li>To interpret a chart and report findings.</li> <li>To compare different methods of collecting data</li> </ul>	Create and refine sequences of commands to make a character move  Use logical reasoning to debug algorithm  Plan and design a 3D game environment  Design programs with sequence and selection that accomplish specific goals  Evaluate a program that they have created and say what they liked and what could be done to improve it  Make improvements to a game based on feedback

Identify ways to respond to	To plan and create an	Use effects in photo-	<ul> <li>To understand and explain the</li> </ul>	
mean words online, using S-T-	animation using code.	manipulation software to edit,	difference between open and	
O-P	<ul> <li>To sequence a series of</li> </ul>	change or enhance an image.	closed questioning	
<ul> <li>Explain how giving credit is a</li> </ul>	events in your plan.	<ul> <li>Combine a number of images</li> </ul>	<ul> <li>To create and use an online</li> </ul>	
sign of respect for people's	To identify key coding blocks	using layering.	questionnaire for data	
work	needed for your animation.	<ul> <li>Import music, stills or video</li> </ul>	collection	
<ul> <li>Learn how to give credit in</li> </ul>	To create an animation using	into video editing software for	<ul> <li>To accurately analyse and</li> </ul>	
their schoolwork for content	code.	a specific project.	interpret database information	
they use from the internet	To critically evaluate the work	<ul> <li>Arrange, trim and cut clips to</li> </ul>	<ul> <li>To make charts from the</li> </ul>	
	of a classmate and offer	create a short film that	database information.	
	constructive feedback.	conveys meaning.	<ul> <li>To present information from a</li> </ul>	
		<ul> <li>Add simple titles, credits and</li> </ul>	database.	
		special effects.		

# Computing Progression - Year 4 (2023-24)

- A) design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- B) use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- C) use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- D) understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- E) use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- F) select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- G) use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Topic	Pyramids & Power	Escape to Narnia	Savage Saxons	Rhythm of Rain	Vicious Vikings	Jungle Fever
NC Objectives	E, F, G	D, E, F, G	А, В, С	D, F, G	А, В, С	F
Computing Unit	Digital Literacy and Online Safety (Y4)	Searching the Web	Starting from Scratch	Communication and Collaboration	Kodu Sports	3D Design
Strand	Digital Literacy • Online Safety	Information Technology	Computer Science	Information Technology Digital Literacy	Computer Science	Digital Literacy  • Multimedia  • Art and Design
Prior Learning	Keeping safe and exploring technology YI Keep Safe and Create Y2 Digital Literacy and Online Safety – Y3	Finding and Presenting Information – Y2	Action algorithms – YI Programming direction – YI Programming with Scratch Jr – Y2 Programming with Logo - Y2 Animation with Scratch – Y3 Getting Started with Kodu – Y3	Keeping safe and exploring technology – YI Keep Safe and Create – Y2	Action algorithms - YI Programming direction - YI Programming with Scratch Jr - Y2 Programming with Logo - Y2 Animation with Scratch - Y3 Getting Started with Kodu - Y3 Starting from Scratch - Y4 SprI	An introduction to digital art – YI  Digital Imagery: Patterns in Nature – Y3  Getting Started with Kodu – Y3
Key Vocab	Advertising Alter Assumption Community Digital citizen Empathy Identity Interpret Norm Password Persuade Photo retouching Phrase Pledge Responsibility Selfie Symbol Username	Algorithm Attribute Cookies Copyright Digital content Evaluation Inference Internet Internet Service Provider (ISP) License Online PageRank Search Server Services Web browser World Wide Web	Abstraction Algorithm Block Blocks Palette Command Coordinate (noun) Costume Debug Decomposition Execute Input Logical reasoning Output Program — (noun) Program - (verb) Repetition/Loop Script Selection Sequence Sprite	Alter Annotate Attachment BCC - 'Blind Carbon Copy'. CC - 'Carbon Copy'. Cloud storage Collaboration Communication Edit Email Internet Internet Service Provider (ISP) Online Packet Password Personal information Phishing Private information Save Server	Algorithm Block Command Debug Decomposition Execute Input Logical reasoning Output Program Selection Sequence Sprite Variables	3D 3D modelling 3D printing Alter CAD Digital content Edit Export Import Save Simulation Software

Basic Skills	Login Logout Highlight All - Ctrl A Change font to bold - Ctrl B Change font to italics - Ctrl I Underline text - Ctrl U Copy text - Ctrl C Paste text - Ctrl V Cut Text - Ctrl X Undo - Ctrl Z	Login Logout Finding a document on 'Shared' File Save As File Print Type using 2 hands Highlight Text Highlight All - Ctrl A Change font style Change font to bold - Ctrl B Change font to italics - Ctrl I Underline text - Ctrl U Align text (left, centre, right, justified) Shift Capital Letter Shift for Special Characters (?!"£&*@:) Copy text - Ctrl C Paste text - Ctrl X Undo - Ctrl Z	Login     Logout     Finding a project within Scratch     Save within Scratch	Services Social interaction Spam Symbol Username Web browser World Wide Web  • Login • Logout • File Print • Type using 2 hands • Highlight Text • Highlight All - Ctrl A • Change font style • Change font size • Change font to italics - Ctrl I • Underline text - Ctrl U • Align text (left, centre, right, justified) • Shift Capital Letter • Shift for Special Characters (?!"£&*@:) • Copy text - Ctrl C • Paste text - Ctrl X • Undo - Ctrl Z	Login     Logout     Finding a project within Kodu     Save within Kodu     Highlight All - Ctrl A	Login Logout Finding a project within SketchUp Save within SketchUp Highlight All - Ctrl A
Programs Used	Google Chrome IWB in class	Web Browsers (Chrome)	Scratch (web-based)	Google	Kodu (downloaded)	• SketchUp
Save Location	Journal	Journal	Within Scratch (login)	Google Drive	Within Kodu	Within SketchUp
Objectives	<ul> <li>Examine both in-person and online responsibilities.</li> <li>Describe the Rings of Responsibility as a way to think about how our behaviour affects ourselves and others.</li> <li>Identify examples of online responsibilities to others.</li> <li>Define the term "password" and describe a password's purpose.</li> <li>Understand why a strong password is important.</li> <li>Practice creating a memorable and strong password.</li> <li>Consider how posting selfies or other images will lead others to make assumptions about them.</li> </ul>	To explain in simple terms what a search engine is To understand how search results are selected and ranked, including that search engines use 'web crawler programs'. To stay safe when going online and to know what to do if they have a problem To use a variety of tools when searching for images To understand and be respectful of copyright when searching for images To make judgements about the reliability and validity of digital content To research and validate information on websites	To understand and explain key vocabulary linked to programming. To become familiar with the Scratch programming environment (blocks, sprites, stage, canvas, controls). To understand and use coordinates in programming. To accurately read, predict and explain visual code. Suggest changes to existing code. Use logic to debug existing code and explain your changes. Modify existing code for a particular purpose and explain your changes.	Log on to an email account, open emails, create and send appropriate replies. Recognise the effect that content in their communications may have on others. Understand the need to keep personal information and passwords private in order to protect themselves when communicating online. Know and apply the school's rules for keeping safe online and be able to apply these beyond school. Attach different files to emails, e.g. text document, sound file or image. Open and save attachments to an appropriate place.	<ul> <li>Plan and design a 3D game environment</li> <li>Create and refine sequences of commands to accomplish specific goals</li> <li>Use logical reasoning to predict outcomes and debug algorithms</li> <li>Use variables to create game systems</li> <li>Evaluate a program that they have created and say what they liked and what could be done to improve it.</li> </ul>	Navigate a 3D environment successfully Create simple 3D models Create detailed 3D models of furniture Use the referencing tools in Sketchup to help keep elements in proportion Use a range of simple drawing tools in Sketchup Apply colour and materials to a 3D model Create a detailed 3D building model Create and use components in a Sketchup model Apply realistic colour and materials to a 3D model

Reflect on the most important	Make and explain judgements	To sequence a series of	To understand and explain	Design buildings that fit a
parts of their unique identity.	about the design of digital	commands accurately and in	cloud storage	particular architectural them
Identify ways they can post	content	the most efficient way.	To upload a document to	or period in history
online to best reflect who	<ul> <li>To compare and contrast</li> </ul>	To understand and explain	cloud storage	Use more advanced building
they are.	different types of maps	different types of loops in	To log into, create and share a	techniques such as
<ul> <li>Define what a community is,</li> </ul>	<ul> <li>To use a variety of tools in</li> </ul>	code, the differences between	collaborative document or	referencing, follow me,
both in person and online.	digital maps to find and	them and when you would	application	components and grouping
<ul> <li>Explain how having norms</li> </ul>	explore places	use them.	Understand the need for	
helps people in a community	<ul> <li>To explore other uses of</li> </ul>	<ul> <li>To add and use different types</li> </ul>	certain rules of conduct,	
achieve their goals.	mapping software	of loops in code to achieve a	particularly when using live	
<ul> <li>Create and pledge to adhere</li> </ul>	<ul> <li>To use online maps to create</li> </ul>	desired outcome.	forums of communication, e.g.	
to shared norms for being in	challenge games	To plan and create an	chats, forums, live docs	
an online community.		animation using code.	To work effectively with	
<ul> <li>Understand that it's important</li> </ul>		<ul> <li>To sequence a series of</li> </ul>	others on a collaborative	
to think about the words we		events in your plan.	document or application.	
use, because everyone		To identify key coding blocks	To understand and	
interprets things differently.		needed for your animation.	demonstrate respect for	
<ul> <li>Identify ways to respond to</li> </ul>		To create an animation using	privacy of people's data.	
mean words online, using S-T-		code.	Understand how to	
O-P.		To critically evaluate the work	communicate safely using	
Decide what kinds of		of a classmate and offer	video chat tools.	
statements are OK to say		constructive feedback.	Respect the ideas and	
online and which are not.			communications of others	
Recognise that photos and			they encounter online.	
videos can be altered digitally.				
Identify different reasons why				
someone might alter a photo				
or video.				
Analyse altered photos and				
videos to try to determine				
why.				

# Computing Progression - Year 5 (2023-24)

- A) design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- B) use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- C) use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- D) understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- E) use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- F) select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- G) use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Topic	Ancient Greeks	To Infinity and Beyond	Lurking Dangers	Sailing Along the Tyne	California Dreamin'	Fair Play, Foul Play
NC Objectives	E, F, G	A, B, C	A, B, C, F	F	D, E	D, F, G
Computing Unit	Digital Literacy and Online Safety Y5	Building Retro Games – Snake/Pong	LEGO Robotics	Manipulating Sound	What is a computer?	Building Collaborative Websites
Strand	Digital Literacy  Online Safety	Computer Science  • Control and Programming	Computer Science  • Control and Programming	Digital Literacy  • Multimedia  ○ Sound	Information technology	Digital Literacy  • Multimedia  ○ Text  ○ Art and Design
Prior Learning	Digital Literacy and Online Safety – Y3 Digital Literacy and Online Safety – Y4	Action algorithms – YI Programming direction – YI Programming with Scratch Jr – Y2 Programming with Logo - Y2 Animation with Scratch – Y3 Getting Started with Kodu – Y3 Programming Scratch Maze Games – Y4 Kodu Sports – Y4	Action algorithms – YI  Programming direction – YI  Programming with Scratch Jr – Y2  Programming with Logo - Y2  Animation with Scratch – Y3  Getting Started with Kodu – Y3  Lego: WeDo – Y3  Programming Scratch Maze Games – Y4  Kodu Sports – Y4	Exploring Digital Sound – YI [Digital Imagery: Patterns in Nature – Y3]	Finding and Presenting Information – Y2 Searching the Web – Y4	Finding and Presenting Information – Y2 Writing in Different Styles – Y2 Searching the Web – Y4 Communication and Collaboration – Y4
Key Vocab	Attribute Copyright Cyberbullying Digital citizen Digital footprint Digital media Inference intellectual property Hardwired Griefing License Media balance Media choices Online video game Personal information Plagiarism Private information Register (online)	Abstraction Algorithm Block Blocks Palette Command Coordinate (noun) Costume Debug Decomposition Execute Input Logical reasoning Output Program Repetition/Loop Script Selection Sequence Sprite	Abstraction Algorithm Block Blocks Palette Command Control Debug Decomposition Execute Function Hardware Input Logic Logical reasoning Output Patterns Program — (noun) Program - (verb) Repetition/Loop	Alter Copyright Digital Digital content Digital media Edit Evaluation Export Import Layer Multimedia Narrate Online Save Sequence Software Timeline	Binary Computer networks CPU - (Central Processing Unit) Data Digital content Digital media Firewall GPU - (Graphics Processing Unit) Hard drive Hardware Input Internet Service Provider (ISP) LAN - "Local Area Network" Network Operating system Output Packet Processor	Alter Annotate Attribute Copyright Digital content Digital media Edit Evaluation Online Password Plagiarism Save Search Software Username Web browser World Wide Web

Basic Skills	Responsibility     Social interaction     Upstander      Type using 2 hands     Copy text - Ctrl C     Paste text - Ctrl V     Cut Text - Ctrl X     Undo - Ctrl Z	Login     Logout     Finding a document on 'Shared'     File Save As     File Print	Robot Selection Sequence  • Robot based unit	<ul> <li>Login</li> <li>Logout</li> <li>File Save As</li> <li>Type using 2 hands</li> <li>Change font style</li> <li>Change font to bold - Ctrl B</li> <li>Change font to italics - Ctrl I</li> <li>Underline text - Ctrl U</li> <li>Align text (left, centre, right, justified)</li> <li>Shift Capital Letter</li> <li>Shift for Special Characters (!!"£&amp;*@:)</li> </ul>	RAM (Random Access Memory). Redundancy ROM 'Read Only Memory' Router Save Server Services Software Switch WAN - 'wide area network' Wireless Access Point (WAP) Wireless Network Web browser Wired Network World Wide Web  Login Logout Finding a document on 'Shared' File Save As File Print	Login Logout Finding a document on 'Shared' File Save As File Print Type using 2 hands Highlight Text Highlight All - Ctrl A Change font style Change font to bold - Ctrl B Change font to italics - Ctrl I Underline text - Ctrl U Align text (left, centre, right, justified) Shift Capital Letter Shift Capital Letter Shift for Special Characters (?!"'£&*@:) Copy text - Ctrl C Paste text - Ctrl V Cut Text - Ctrl X
Programs Used	Google Chrome IWB in class	Scratch (web-based)	LEGO EV3 • LEGO education app (iPad)	Audacity Various online programs • Isle of Tune (iPads)	Google Chrome IWB in class	Google Online Programs
Save Location	Journal	Within Scratch (login)	Within Software	Journal	Journal	Google Drive
Objectives	<ul> <li>Learn the "What? When? How Much?" framework for describing their media choices.</li> <li>Use this framework and their emotional responses to evaluate how healthy different types of media choices are.</li> <li>Begin to develop their own definition of a healthy media balance.</li> </ul>	<ul> <li>Analyse an existing video game and explain how it works</li> <li>Understand and use sequence, selection, and repetition in programs;</li> <li>Use X and Y coordinates effectively to control a sprite's movement</li> <li>Understand and use variables to control functions in a game</li> <li>Plan ways to add to and improve a program</li> </ul>	Understand and explain what a robot is and how they are used Design and write algorithms to control a robot Understand and change variables to change the movements of a robot Write algorithms to control the movements of a robot Debug algorithms to solve problems	Use a variety of music software to experiment with capturing, repeating and sequencing sound patterns.  Understand the difference between digital and analogue sound Experimenting with sound online Talk about software which allows the creation and manipulation of sound and music.	<ul> <li>To recognise computers in machines around us</li> <li>To understand and explain input and output devices for computers</li> <li>To recognise that a range of digital devices can be considered a computer.</li> <li>To explain the differences between types of common computers.</li> </ul>	<ul> <li>Log-in and manage an online account and password safely</li> <li>To work effectively with others on a collaborative document or application</li> <li>Use appropriate strategies for finding, evaluating, and verifying information,</li> <li>Distinguish between fact and opinion</li> <li>Understand the concept of plagiarism and the importance</li> </ul>

_	<ul> <li>Identify the reasons why people share information</li> </ul>	Use logical reasoning to debug programs	Understand different types of turn and program a robot to	Locate and use sound files from online sources.	To understand the difference between hardware and	of acknowledging and referencing sources.
	people share information about themselves online.  Explain the difference between private and personal information.  Explain why it is risky to share private information online.  Define the term "digital footprint" and identify the online activities that contribute to it.  Identify ways they are and are not in control of their digital footprint.  Understand what responsibilities they have for the digital footprints of themselves and others.  Define "social interaction" and give an example.  Describe the positives and negatives of social interaction in online games.  Create an online video game cover that includes guidelines for positive social interaction.  Reflect on the characteristics that make someone an upstanding digital citizen.  Recognise what cyberbullying is.					0 0
	<ul> <li>Show ways to be an upstander by creating a digital citizenship superhero comic strip.</li> <li>Define "copyright" and explain</li> </ul>					
	how it applies to creative work.					
	a Dagawiha shain nighta and	I		1	1	

Describe their rights and responsibilities as creators.
Apply copyright principles to real-life scenarios.

# Computing Progression - Year 6 (2023-24)

Curriculum Objectives

- A) design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- B) use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- C) use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- D) understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- E) use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- F) select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- G) use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Topic Lest We Forget		Home Alone	Kensuke's Kingdom	The Oba Kings	One Way Ticket	
NC Objectives	E, F, G	A, C, F	D, F, G	A, B, C, F	F, G	
Computing Unit	Digital Literacy and online safety (Y6)	Spreadsheet Masters	Inside the internet	Getting started with the BBC micro:bit	Creating Instru	actional Videos
Strand	Digital Literacy  Online Safety	Information technology	Information technology Computer Science • Control and Programming	Computer Science  • Control and Programming	Digital Literacy  • Multimedia  ○ Video  ○ Text	
				Action algorithms – YI		
				Programming direction – YI	Digital Imagery: Patterns in Nature – Y3	
	Keeping safe and exploring technology – YI			Programming with Scratch Jr - Y2		
				Programming with Logo - Y2		
	Keep Safe and Create – Y2			Animation with Scratch – Y3		
Prior	Digital Literacy and Online Safety		Finding and Presenting Information – Y2	Getting Started with Kodu – Y3		
Learning	I = Y3	Databases – Y3	Searching the Web – Y4	Lego: WeDo – Y3	Manipulating Sound – Y5  Building Collaborative Websites – Y5	
				Programming Scratch Maze Games – Y4		
	Digital Literacy and Online Safety			Kodu Sports – Y4		
	- 13			Building Retro Games – Snake/Pong – Y5		
				Lego Robotics - Y5		
	Advertising	Ascending	Computer networks	Abstraction		
	Article	Cell Cell reference	Cookies CSS	Algorithm Block		
	Avatar Balance	Chart	CSS Data	Blocks Palette	Annotate	
	Benefit	Column	Firewall	Command	Capture	
	Bias	Conditional formatting	Hardware	Coordinate (noun)	Digital content	
	Bully	Criteria	HTML (Hypertext Markup Language)	Costume	Edit	
V V h	Bullying	Data	Internet	Debug	Export	
Key Vocab	Bystander	Data set	Internet Service Provider (ISP)	Decomposition	Frame	
	Clickbait	Descending	IP (internet protocol) Address	Execute	Import	
	Commercial	Format	LAN (Local Area Network)	Input	Layer	
	Curiosity Gap	Formula	Network	Logical reasoning	Narrate	
	Cyberbullying	Information	Networked printer	Output	Timeline	
	Digital media	Label	Online	Program		
	Empathy	Row	Password	Repetition/Loop		
	Gender stereotypes	Sort	PC (Personal computer)	Script		

	•				,
	Headline	Tab	Proxy server	Selection	
	Inference	Workbook	Redundancy	Sequence	
	Media	Worksheet	Router	Sprite	
	Media balance		Server	Stage	
	Media choices		Server jobs		
	News		Services		
	Personal information		Software		
	Private information		Switch		
	1				
	Risk		WAN (wide area network)		
	Target		Web browser		
	Upstander		Wired Network		
			Wireless Access Point (WAP)		
			Wireless Network		
			World Wide Web		
	File Print	Login	Login	Login	Finding a document
	Highlight Text	• Logout	Logout	Logout	• Save
	Highlight All - Ctrl A	Finding a document on 'Shared'	Shift Capital Letter	Shift Capital Letter	Type using 2 hands
		• File Save As		• Undo – Ctrl Z	
	Change font style		Shift for Special Characters	• Ondo – Ctri Z	Highlight Text
	Change font size	Type using 2 hands	(?!ӣ&*@:)		Change font style
	<ul> <li>Change font to bold - Ctrl B</li> </ul>	Highlight Text			Change font size
	Change font to italics - Ctrl I	Highlight All - Ctrl A			Align text (left, centre, right, justified)
Basic Skills	Underline text - Ctrl U	Align text (left, centre, right)			Shift Capital Letter
	Align text (left, centre, right,	Shift Capital Letter			
	justified)	Shift for Special Characters			
	, ,				
	Shift Capital Letter	(?!ӣ&*@:)			
	Copy text - Ctrl C	Copy text - Ctrl C			
	Paste text - Ctrl V	Paste text - Ctrl V			
	Cut Text - Ctrl X	Cut Text - Ctrl X			
	• Undo – Ctrl Z	• Undo – Ctrl Z			
D			www.w3schools.com		
Programs	Google Chrome	Google Sheets/Microsoft Excel		The MakeCode editor on microbit org	Pages (iPad)
Used	Google Chrome IWB in class	Google Sheets/Microsoft Excel	x-ray-goggles.mouse.org	The MakeCode editor on microbit.org	Pages (iPad) iMovie (iPad)
		Google Sheets/Microsoft Excel		The MakeCode editor on microbit.org	
	IWB in class		x-ray-goggles.mouse.org		iMovie (iPad)
Used Save		Google Sheets/Microsoft Excel  Google Drive/OneDrive School Network	x-ray-goggles.mouse.org glitch.com	The MakeCode editor on microbit.org  Journal	
Used	IWB in class  Journal	Google Drive/OneDrive School Network	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive	Journal	iMovie (iPad)  Within software (numbered iPads)
Used Save	Journal  Reflect on how balanced they are in	Google Drive/OneDrive School Network  • Explain what a spreadsheet is	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  To know and explain the purpose of	Journal  • To create simple programs to	iMovie (iPad)  Within software (numbered iPads)  To understand and explain the features of
Used Save	Journal  Reflect on how balanced they are in their daily lives.	Google Drive/OneDrive School Network  • Explain what a spreadsheet is • Describe how a spreadsheet could	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  To know and explain the purpose of key components in a typical school	Journal  • To create simple programs to control the LED matrix on the	iMovie (iPad)  Within software (numbered iPads)  To understand and explain the features of an instructional video.
Used Save	Journal  Reflect on how balanced they are in their daily lives. Consider what "media balance"	Google Drive/OneDrive School Network  • Explain what a spreadsheet is • Describe how a spreadsheet could be used by someone at work	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  To know and explain the purpose of key components in a typical school network	Journal  • To create simple programs to control the LED matrix on the micro:bit	iMovie (iPad)  Within software (numbered iPads)  To understand and explain the features of an instructional video.  To critically evaluate existing instructional
Used Save	Journal  Reflect on how balanced they are in their daily lives. Consider what "media balance" means, and how it applies to them.	Google Drive/OneDrive School Network  • Explain what a spreadsheet is • Describe how a spreadsheet could be used by someone at work • Label the different areas of a	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  • To know and explain the purpose of key components in a typical school network  • To draw, label and explain a typical	Journal  • To create simple programs to control the LED matrix on the micro:bit • To edit and adapt simple programs	Within software (numbered iPads)  To understand and explain the features of an instructional video.  To critically evaluate existing instructional videos.
Used Save	Journal  Reflect on how balanced they are in their daily lives. Consider what "media balance"	Google Drive/OneDrive School Network  • Explain what a spreadsheet is • Describe how a spreadsheet could be used by someone at work	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  To know and explain the purpose of key components in a typical school network	Journal  • To create simple programs to control the LED matrix on the micro:bit	iMovie (iPad)  Within software (numbered iPads)  To understand and explain the features of an instructional video.  To critically evaluate existing instructional
Used Save	Journal  Reflect on how balanced they are in their daily lives. Consider what "media balance" means, and how it applies to them.	Google Drive/OneDrive School Network  • Explain what a spreadsheet is • Describe how a spreadsheet could be used by someone at work • Label the different areas of a	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  • To know and explain the purpose of key components in a typical school network  • To draw, label and explain a typical	Journal  • To create simple programs to control the LED matrix on the micro:bit • To edit and adapt simple programs	Within software (numbered iPads)  To understand and explain the features of an instructional video.  To critically evaluate existing instructional videos.
Used Save	Journal  Reflect on how balanced they are in their daily lives. Consider what "media balance" means, and how it applies to them. Create a personalised plan for healthy and balanced media use.	Google Drive/OneDrive School Network  • Explain what a spreadsheet is • Describe how a spreadsheet could be used by someone at work • Label the different areas of a spreadsheet using the correct vocabulary	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  • To know and explain the purpose of key components in a typical school network  • To draw, label and explain a typical school network  • To know and explain the services	Journal  To create simple programs to control the LED matrix on the micro:bit  To edit and adapt simple programs on the micro:bit	iMovie (iPad)  Within software (numbered iPads)  To understand and explain the features of an instructional video. To critically evaluate existing instructional videos. To work successfully in a team to plan an instructional video.
Used Save	Journal  Reflect on how balanced they are in their daily lives. Consider what "media balance" means, and how it applies to them. Create a personalised plan for healthy and balanced media use. Define "the curiosity gap."	Google Drive/OneDrive School Network  • Explain what a spreadsheet is • Describe how a spreadsheet could be used by someone at work • Label the different areas of a spreadsheet using the correct vocabulary • Create simple formulae in a	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  • To know and explain the purpose of key components in a typical school network  • To draw, label and explain a typical school network  • To know and explain the services offered by a typical school network	Journal  To create simple programs to control the LED matrix on the micro:bit To edit and adapt simple programs on the micro:bit To download, load and test the .hex file on the micro:bit.	iMovie (iPad)  Within software (numbered iPads)  To understand and explain the features of an instructional video. To critically evaluate existing instructional videos. To work successfully in a team to plan an instructional video. To create a clear and factually accurate
Used Save	Journal  Reflect on how balanced they are in their daily lives. Consider what "media balance" means, and how it applies to them. Create a personalised plan for healthy and balanced media use. Define "the curiosity gap." Explain how clickbait uses the	Google Drive/OneDrive School Network  • Explain what a spreadsheet is • Describe how a spreadsheet could be used by someone at work • Label the different areas of a spreadsheet using the correct vocabulary • Create simple formulae in a spreadsheet.	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  • To know and explain the purpose of key components in a typical school network  • To draw, label and explain a typical school network  • To know and explain the services offered by a typical school network  • To understand how data travels	Journal  • To create simple programs to control the LED matrix on the micro:bit  • To edit and adapt simple programs on the micro:bit  • To download, load and test the .hex file on the micro:bit.  • To understand inputs and outputs	iMovie (iPad)  Within software (numbered iPads)  • To understand and explain the features of an instructional video.  • To critically evaluate existing instructional videos.  • To work successfully in a team to plan an instructional video.  • To create a clear and factually accurate script for an instructional video.
Used Save	Journal  Reflect on how balanced they are in their daily lives. Consider what "media balance" means, and how it applies to them. Create a personalised plan for healthy and balanced media use. Define "the curiosity gap." Explain how clickbait uses the curiosity gap to get your attention.	Google Drive/OneDrive School Network  • Explain what a spreadsheet is • Describe how a spreadsheet could be used by someone at work • Label the different areas of a spreadsheet using the correct vocabulary • Create simple formulae in a spreadsheet. • Recall features of a spreadsheet	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  • To know and explain the purpose of key components in a typical school network  • To draw, label and explain a typical school network  • To know and explain the services offered by a typical school network  • To understand how data travels around the Internet	Journal  • To create simple programs to control the LED matrix on the micro:bit  • To edit and adapt simple programs on the micro:bit  • To download, load and test the .hex file on the micro:bit.  • To understand inputs and outputs on a computer	iMovie (iPad)  Within software (numbered iPads)  • To understand and explain the features of an instructional video.  • To critically evaluate existing instructional videos.  • To work successfully in a team to plan an instructional video.  • To create a clear and factually accurate script for an instructional video.  • To critically evaluate another group's script
Used Save	Journal	Google Drive/OneDrive School Network  • Explain what a spreadsheet is • Describe how a spreadsheet could be used by someone at work • Label the different areas of a spreadsheet using the correct vocabulary • Create simple formulae in a spreadsheet. • Recall features of a spreadsheet • Use cell references to complete	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  • To know and explain the purpose of key components in a typical school network  • To draw, label and explain a typical school network  • To know and explain the services offered by a typical school network  • To understand how data travels around the Internet  • To know how internet servers are	Journal  To create simple programs to control the LED matrix on the micro:bit To edit and adapt simple programs on the micro:bit To download, load and test the .hex file on the micro:bit. To understand inputs and outputs on a computer To program the micro:bit's LED	iMovie (iPad)  Within software (numbered iPads)  To understand and explain the features of an instructional video. To critically evaluate existing instructional videos. To work successfully in a team to plan an instructional video. To create a clear and factually accurate script for an instructional video. To critically evaluate another group's script for an instructional video.
Save Location	Journal  Reflect on how balanced they are in their daily lives. Consider what "media balance" means, and how it applies to them. Create a personalised plan for healthy and balanced media use. Define "the curiosity gap." Explain how clickbait uses the curiosity gap to get your attention. Use strategies for avoiding clickbait. Define "gender stereotype" and	Google Drive/OneDrive School Network  • Explain what a spreadsheet is • Describe how a spreadsheet could be used by someone at work • Label the different areas of a spreadsheet using the correct vocabulary • Create simple formulae in a spreadsheet. • Recall features of a spreadsheet • Use cell references to complete formulae	x-ray-goggles.mouse.org glitch.com  Journal Screenshots to Google Drive  • To know and explain the purpose of key components in a typical school network  • To draw, label and explain a typical school network  • To know and explain the services offered by a typical school network  • To understand how data travels around the Internet  • To know how internet servers are connected	Journal  • To create simple programs to control the LED matrix on the micro:bit  • To edit and adapt simple programs on the micro:bit  • To download, load and test the .hex file on the micro:bit.  • To understand inputs and outputs on a computer  • To program the micro:bit's LED matrix to respond to different	iMovie (iPad)  Within software (numbered iPads)  To understand and explain the features of an instructional video. To critically evaluate existing instructional videos. To work successfully in a team to plan an instructional video. To create a clear and factually accurate script for an instructional video. To critically evaluate another group's script for an instructional video. To experiment with text, image and
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Describe how to respond to an	Use tools (sort, conditional	To edit HTML code and remix a	Understand what conditional	Upload and share a video with a group
online-only friend if the friend asks	formatting) in a spreadsheet to help	web page	statements (selection) are, and why	using collaborative web tools.
something that makes them	someone understand the	To edit CSS code to change the	and when to use them in a program	
uncomfortable.	information more quickly	style of a web page	<ul> <li>Understand what variables are and</li> </ul>	
<ul> <li>Recognise similarities and</li> </ul>	<ul> <li>Create a spreadsheet to test maths</li> </ul>	To know that colours can be	why and when to use them in a	
differences between in-person	facts	written as hexadecimal codes	program.	
bullying, cyberbullying, and being	Use Conditional formatting to mark	To independently edit HTML code	<ul> <li>Learn how to create random</li> </ul>	
mean.	the questions	and remix a web page	outputs from a range of possibilities.	
<ul> <li>Empathise with the targets of</li> </ul>		To independently edit CSS code to	<ul> <li>Learn how to create, set and change</li> </ul>	
cyberbullying.		change the style of a web page	a variable value within a micro:bit	
<ul> <li>Identify strategies for dealing with</li> </ul>			program.	
cyberbullying and ways they can be			<ul> <li>Learn how to use the basic</li> </ul>	
an upstander for those being bullied.			mathematical blocks for adding,	
<ul> <li>Understand the purposes of</li> </ul>			subtracting, multiplying, and dividing	
different parts of an online news			variables.	
page.				
<ul> <li>Identify the parts and structure of</li> </ul>				
an online news article.				
<ul> <li>Learn about things to watch out for</li> </ul>				
when reading online news pages,				

such as sponsored content and

advertisements.