# **Computing KS3 Department: Curriculum Overview 2023-24**

## **Curriculum Intent:**

In Maths, IT & Computing, our aims are for all students;

- To have a passion for and resilience towards Maths, IT and Computing
- To develop strong problem solving, digital literacy and numeracy skills
- To be able to communicate their learning in Maths, IT and Computing effectively
- To be aware of E-Safety and how to report concerns and keep themselves safe & healthy online
- To gain qualifications to best prepare students for life after Fullbrook

	Term 1		Term 2		Ter		
Year 7	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6	
	[4 lessons]	[ 4 lessons]	[3 lessons]	[ 3 lessons]	[ 3 lessons]	[4 lessons]	
Topic	E-Safety	MS Office	Cats & Dogs	Scratch	Fireworks	CODE.org	End Points

Content	Understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct and know how to report concerns.  Lesson 1  Be able to use the software and hardware to access email, SLE, class charts. Create folder structures. Save work.  Lesson 2  To understand what cyberbullying is.  To understand the impacts of cyberbullying on the individual To learn how to protect yourself from cyberbullying.  To know how to report cyberbullying  Lesson 3  To understand the terms sexting and grooming  To understand the consequences of sexting  To learn how to protect yourself	Be able to use word processing, spreadsheet and presentation software to solve a range of tasks.  Lesson 1 Be able to_use a range of formatting skills in MS Word. Know keyboard shortcuts. Be able to do screenshots. Develop understanding of folder structure.  Lesson 2 Understand what spreadsheets are used for. Be able to format a spreadsheet. Understand cell referencing. Be able to carry out basic operations (+, -, *, /)  Lesson 3 Be able to create and format a power point. Be able to use transitions, hyperlinks and animations in	Collect Data & Record Use basic formulas Formatting IF function  Lesson 1 Be able to collect information and record sources. Understand what makes a reliable source.  Lesson 2 Be able to use basic to advanced formula and functions in Excel.  Lesson 3 Be able to model different scenarios in spreadsheets. To use Publishing software to create a flyer.	Be able to develop a range of games (Racing, Asteroid, Underwater)  Lesson 1 Learn how to use basic script — move cat/sprite 10 paces, show dragging blocks, how to stop a script, how to save a script. Show: using a forever loop, Bounce and rotations.  Lesson 2 Learn how to use variables in scripts, as part of repetition constructs for games (E.g. for score/points counters).  Lesson 3 Learn how to use duplicate sprites and re-use pre-written scripts. Be able to extend scripts via the use of message banners.  Lesson 4	Make use of simple shapes Combining Paths Advanced Techniques Photo Manipulation Use of Pen Tool Text Formatting Magazine Cover Animated Banner (GIF)  Lesson 1 Be able to develop Simple shapes and combine paths to develop new designs.  Lesson 2 Be able to use advanced techniques to manipulate photographs using selection.  Lesson 3 Be able to design and create magazine cover and an animated GIF banner.	Be able to use block-based programming to solve programming problems.  Lesson 1 Identify and locate bugs in a program. Translate movements into a series of commands using sequencing.  Lesson 2 Create sprites and objects and assign them costumes and behaviours.  Lesson 3 Create an interactive animation using events. Develop programs that respond to timed events. Develop programs that respond to user input.	Be able to create, re-use, revise and re-purpose digital artefacts for a given audience, with attention to trustworthiness, design and usability  Understand the hardware and software components that make up computer systems,  Be able to use block-based programming languages  Understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct and
Prior Knowledge	different types of grooming To be able to explain the impacts of grooming and methods you can follow to stay safe  Lesson 4 To understand what a phishing email is and how they work To understand what they warning signs of a phishing email are. Be able to complete an assessment on what you have learnt so far. To learn about the potential career pathways in E-safety  Any KS2 E-Safety SoW Use of desktop PCs @ home or	On one page.  Lesson 4 Be able to combine multiple applications to complete a task, based on a business scenario  Use of Email, attachments, E-Safety, MS Office experience.	MS Office SoW (Spreadsheets) KS2 Spreadsheet	shapes and incorporating a range of colours to enhance the quality of program designs.  Scratch / Other block based programming languages.		of instructions into the largest repeatable sequence. Use a combination of sequential and looped commands to reach the end of a maze. Identify the benefits of using a loop structure instead of manual repetition.	Students will be able to use Fullbrook's network effectively including folder structure, emails, accessing the SLE and Class charts.
Required	schools.	Salety, IVIS Office experience.	K32 Spreadsneet	programming languages.			

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Feedback	Peer assessment of posters	Verbal feedback.	Peer assessment	Peer assessment	Self Assessment,	Self Assessment,	
Points	Verbal feedback	Self and peer assessment.	Self-assessment	Verbal feed-back	Peer Assessment	Peer Assessment	
			Verbal Feedback	Self-assessment	Verbal Feedback	Verbal Feedback	
						Summative assessments.	
Key Questions	Why is folder structure important? What are some dangers online? What can you do to ensure your identity is safe? Who do you report concerns to? How can you report concerns?	Why should we use formatting in documents? How can spreadsheets save time? Why are some presentations less effective than others?	What are the benefits of using spreadsheet software? Where are spreadsheets used in the real world? How can I design a product to appeal to a target audience?	What are the benefits of using block-based programming languages over text-based programming languages? What steps can I take to help with the design of computer programs?	What jobs make use of digital graphics editing?		
Direct Vocab Instruction	E-Safety, Online, Report, Phishing, Danger, meeting, email, attachment, link, virus, concern, logging, network, password, login, folders, attachment, Internet.	Document, save location, save, formatting, indent, bold, italic, alignment, header, footer, text, link, picture, images, graphics, ruler, page numbers, table, rows, columns, relative, cell, reference, formula, functions, SUM, Borders, Shading, data types, dragging, tabs, worksheet, One-drive, Saveas.	Cell Reference, Biased, Reliable, Formulas, Functions, Columns, Rows.	Sprite, programming, coding, text, loop, constructs, repetition, selection, sequence, variable, parameter, background. Costume, image, library, flow, movement, direction, degrees, path, values, execute, run, evaluate, reverse	Combine, Unite, Punch, Selection, Magic Wand,		
Standardised Homework	Research Tasks Quizzes Problem Solving Independent Learning	Research Tasks Quizzes Independent Learning	Research Tasks Quizzes Problem Solving	Problem Solving Research Tasks Quizzes	Research Tasks Quizzes Problem Solving	Research Tasks Quizzes Problem Solving	

		Term 1	Te	erm 2	Te	erm 3	
Year 8	Half Term 1 [3 core & 1 bonus lessons]	Half Term 2 [ 3 lessons & 1 bonus ]	Half Term 3 [ 2 lessons & bonus]]	Half Term 4 [3 lessons]	Half Term 5 [3 lessons]	Half Term 6 [3 lessons & 1 bonus]	
Topic	Python (Text Based)	Python (Text Based)	MS Word, PowerPoint (& Excel) Use of applications	Web Design (Rocket Cake)	Game Making (Click Team Fusion)	Game Making (Click Team Fusion)	End Points
Skill	-	veloping programs that make use of variables, ction, iteration, boolean variables and logical	Be able to use word processing, spreadsheet and presentation software to solve a range of tasks.	Identify pros and cons of different devices and internet connection methods. Be able to plan and develop a multipage website using web development software.	Be able to develop understand games from multiple genres a home.  ~Shoot Em Up style game.  ~Choco-break (pong style)  ~2 Player Maze  ~ Platform Game  Be able to Plan, Develop & Tester Be able to review games.	nd export them for use at	Be able to design, use and evaluate computational abstractions that model the state and behaviour of realworld problems and physical systems ① understand several key algorithms that

							reflect computational thinking [for example, ones for sorting and searching]; use logical reasoning to compare the utility of alternative algorithms for the same problem
							Be able to create, re- use, revise and re- purpose digital artefacts for a given audience, with attention to trustworthiness, design and usability
Content	Lesson 1 – First Steps	Lesson 4 – More Branches	Lesson 1	Lesson 1: Research	Lesson 1	Lesson 4	
	Learning Objectives:	*Some classes will cross into 2 <sup>nd</sup> term due to Inset & Early Closure	Be able to use a range of formatting skills in MS  Word.	The_purpose and features of websites.	~Be able to make a Shoot Em Up style game.	~ Platform Game	
	1. Describe what algorithms and programs are and how they differ  2. Recall that a program written in a programming language needs to be translated in order to be executed by a machine  3. Write simple Python programs that display messages, assign values to variables, and receive keyboard input  4. Locate and correct common syntax errors	- Learning Objectives:  3. Use multi-branch selection (if, elif, else statements) to control the flow of program execution  4. Describe how iteration (while statements) controls the flow of program execution  Homework: Q & A (PG Book)  Lesson 5 - Quiz  Students will put together the skills learned to create a general knowledge quiz (first in Scratch) that will keep the players score and allocate lives. IF the lives = 0 then a game over screen is displayed.  Homework: Plan the same quiz but for Python.	Know keyboard shortcuts. Be able to do screenshots. Develop understanding of folder structure.  Lesson 2 Understand what spreadsheets are used for. Be able to format a spreadsheet. Understand cell referencing. Be able to carry out basic operations (+, -, *, /)  Lesson 3 (Extra) Be able to create and format a power point. Be able to use transitions, hyperlinks and animations in power point. Be able to print multiple slides on one page.	Devices that connect to the internet.  Methods to connect to the internet.  LESSON 2: PLANNING  Write text that will appear on your website.  Collect assets that will be used on the website.  -File Formats  -Copyright Designs & Patents Act.  -Pixabay  Building of site using the help sheet on the SLE.  Homework:	Folder set up What is a games engine? What is ClickTeam Fusion? Intro to Workspace -Events Editor -Frame Editor -Storyboard Editor  *Show end game result.  Creating assets Adding movement Interaction -Position (bounce on walls) -Collisions (other assets)  How to Export and save to OneDrive  Homework: Complete testing table of the game you have developed.	-Examples of platform games.  -App Size (to add unseen level content)  -Frame Focus (to follow P1)  - Backdrops (platforms & ladders)  -Event Editor  Export game to OneDrive and share with a partner.  Homework: Review each other's games.  LESSON 5:	
	Research 3 Apps made using Python.  Explain what do they do?	Use the homework planning to develop the quiz in Python. Additional features can be added such as timers, power ups and extra lives.		Homework:  Complete the text for the site; All About Me, Hobbies, The Future.	LESSON 2: Be able to make a pong style game. ~Choco-break (pong style)	Planning booklet for game ideas using the 'Code a Game Booklet'	
	How much are they worth?					Planning (part 1)	

### <u>LESSON 2</u> – CRUNCHING NUMBERS

Learning Objectives:

- 1. Describe the semantics of assignment statements
- 2. Use simple arithmetic expressions in assignment statements to calculate values
- 3. Receive input from the keyboard and convert it to a numerical value

#### Homework:

Answer questions in booklets. TAsks 1-3.

LESSON 3 – AT A CROSSROADS

Learning Objectives:

- Use relational operators to form logical expressions
- 2. Use selection (if, else statements) to control the flow of program execution
- 3. Generate and use random integers

#### Homework:

Create an RPG game in Trinket using selections

#### <u>LESSON 4</u> - MORE BRANCHES

\*Some classes will cross into 2<sup>nd</sup> term due to Inset & Early Closure

- Learning Objectives:

Homework: Revision for the formal assessment.

# <u>LESSON 7 – FORMAL ASSESSMENT & MAGIC 8</u> BALL

Learning Objectives:

- 1. Complete an MS Forms based assessment.
- 2. Understand and use sequence in an algorithm
- 3. Understand and use selection in an algorithm (IF, Else and Else if)
- 4. Understand the importance of comments in code

Ask the 8-ball a yes or no question and the 8-ball will reply with answers such as "Yes", "No", "Without a doubt" etc. (Seemingly being able to predict the future)

The Magic 8 Ball is made up of 20 responses – 10 positive, 5 negative and 5 neutral.

Possible answers and instructions are located here:

https://teachwithict.weebly.com/magic-8-ball1.html

**EXT Lesson** 

#### **LESSON 8 - THE SORTING HAT**

\*Some classes will not get this far due to Inset & Early Closures.

**Learning Objectives** 

- Understand and use sequence in an algorithm
- Understand and use iteration in an algorithm (FOR and WHILE loops)
- Understand and use selection in an algorithm (IF, Else and Else if)

Students will be creating their very own 'Harry Potter' style sorting hat that will select a house at random when a button is pressed.

Link to resources and tasks are here:

200 words min per section.

#### **LESSON 3: BUILDING**

Building of site using the help sheet on the SLE and modelling by the teacher.

Be able to apply the following:

- -Templates -Containers
- -Navigation Menus
- -Formatting
- -Styles Buttons -Web Form Buttons
- -Scrolling Galleries
- -Embedding Video -Embedding Audio
- -Floating Text
- -Floating Images

**Export to OneDrive** 

#### Homework:

Complete testing table of the game you have developed.

#### **LESSON 3:**

~2 Player Maze Additional players Movement Controls Timers Obstacles

#### **Export to OneDrive**

#### Homework:

Complete testing table of the game you have developed.

Choose genre
Aim of game
Choose Environment
Story / Overview
Original Game Artwork
(Player, Enemy, Obstacles,
Collectables.)

<u>Homework</u>: Complete designs in booklet of your artwork.

#### **LESSON 6:**

<u>Planning</u> booklet for game ideas using the 'Code a Game Booklet'

#### Planning (part 2)

Movements

Collisions
-Leave frame
-Obstacles
-Collectables

Score / Lives Special Events (1up or reduce score etc)

Adding Sounds (file formats)

### <u>Develop</u>

Develop & test original game

#### **Homework**

Create your own testing table based on your gameplay.

Lesson 7 & 8

Develop &Test

How to **review** a game.

Export game to OneDrive and share with a partner.

Homework:

	1. Use multi-branch selection (if, elif, else statements) to control the flow of program execution 2. Describe how iteration (while statements) controls the flow of program execution  Homework: Q & A (PG Book)	https://teachwithict.weebly.com/sorting-hat.html				Review each other's games.
Prior Knowledge Required	Block Based Programming in Scratch	Block Based Programming in Scratch or other block-based programming languages	Basic understanding of layout of menu systems for MS Office applications Understanding the key capabilities of each of the different applications (MS Word, Ecel & Power point)	KS2 work on networks. (Limited)	Scratch Python Fireworks	
Feedback Points	1 to 1 verbal feedback. Peer feedback. Kahoot results from Plenary.	Kahoot quiz feedback.	Teacher feedback (Verbal) based on tasks End of topic quiz/progress based on techniques	Verbal Feedback Peer Assessment Self Assessment	Verbal Feedback Peer Assessment Self Assessment	
Key Questions	What is an algorithm? What is a variable? How can you assign different da How can I import a random inte What is an example of selection		Why should we use formatting in documents? How can spreadsheets save time? Why are some presentations less effective than others?	What is the purpose of websites? What devices can connect to the internet? What are the different features? How do devices connect to the internet? What is the Copyright Designs and Patents Act?	What are different genres of ga What is a games engine? What are features of various ga Can you explain the purpose of What is the purpose / objective	enres of video games? f a testing table?
Direct Vocab Instruction	Algorithm, program, programm variables, assign, conditions, sel	ing language, syntax, data types, input, output, lection.	Document, save location, save, formatting, indent, bold, italic, alignment, header, footer, text, link, picture, images, graphics, ruler, page numbers, table, rows, columns, relative, cell, reference, formula, functions, SUM, Borders, Shading, data types, dragging, tabs, worksheet, One-drive, Save-as, mail merge, effective, paragraphs, default, autocomplete, export, insert, hyperlink, transitions, animations, images, links, reflections, custom, paths	Wi-Fi, Ethernet, Satellites, Copyright Designs and Patents Act, Desktop, Laptop, Tablets, Smart Phones, File Formats.	Games Engine, Shoot-Em-Up, F Events, Frames, Storyboards	Platform, Assets, Obstacles,

Standardised	Research Tasks.	Research Tasks.	Research tasks	Extended writing,	Research Tasks.	
Homework	Booklet based tasks.	Booklet based tasks.	Document completion	Research Tasks,	Booklet based tasks.	
	Problem solving	Problem solving	tasks		Problem solving	
	Python programming tasks.	Python programming tasks.	Simple problem-solving		Design based	
			tasks,			

	Terr	n 1	Te	erm 2	Te	erm 3	
Year 9	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6	
	[4 lessons]	[4 lessons]	[3 lessons]	[3 lessons]	[3 lessons]	[4 lessons]	
Topic	MS Word, PowerPoint (& Excel) Use of applications	Photoshop / Photopea	VB	VB	Theory	MIT APP Inventor	End Points
Skill	Mail Merging, Format formal Letters (formal layout), Writing specific requirements,	Be able to use Photoshop to solve a range of design problems. Develop understanding of the use of digital graphics. Know the suitability of different image file formats.	Learn how to use a Text based Integrated Development environment (IDE) and all associated tools	Extend understanding of the IDE in relation to editing, error correction and troubleshooting computer programs.	Learn how to apply basic CS concepts to real-world scenarios Understand the importance and relationship number systems have within computer systems (Eg Use of Binary) Understand how logical operations are incorporated into computer systems	Learn how to use external devices (Eg. Tablets) to test online applications simulating website access	Be able to undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users.  Be able to create, reuse, revise and repurpose digital artefacts for a given audience, with attention to trustworthiness, design and usability  Understand simple Boolean logic [for example, AND, OR and NOT] and some of its uses in circuits and programming; understand how numbers can be

							represented in binary, and be able to carry out simple operations on binary numbers [for example, binary addition, and conversion between binary and decimal]  understand how instructions are stored and executed within a computer system; understand how data of various types (including text, sounds and pictures) can be represented and manipulated digitally, in the form of binary digits  use two or more programming languages, at least one of which is textual, to solve a variety of computational problems; make appropriate use of data structures [for example, lists, tables or arrays]; design and develop modular programs that use procedures or
B fc K U a tt d	Lesson 1 Be able to use a range of formatting skills in MS Word. Know keyboard shortcuts. Understand how to use advanced techniques to enable the creation of documents for different target audiences (e.g. Mail Merging)	Lesson 1 – Getting Started  Be able to use a range of techniques to create an original image.  Be able to understand the suitability of different image file types.  Be able to export images in a	Lesson 1 Understand the difference between form based and console-based applications To learn about the three programming constructs Understand what variables are and how to use them Understand what a 'Sequence of instructions' comprise	Lesson 1 Learn how to pass variables onto forms via controls. Understand the importance of planning computer programs using graphical notation  Lesson 2 Learn how to combine the 3	Lesson 1 Learn how to convert numbers between different number systems (Binary, Decimal and Hexadecimal) Understand how computers perform simple arithmetic in binary (such as addition and multiplication)	Lesson 1 Understand what is an app? Understand why we use apps. Understand how blocks are used and linked together when creating apps. Learn how to create and test a simple App on an external device (Eg. A tablet)  Lesson 2	
I -	Jnderstand what spreadsheets	range of different formats.	Lesson 2	programming constructs (Sequence, selection and	Lesson 2	LESSUII Z	

	are used for.		To learn about repetition	Iteration) to make simple	Understand the key	Learn the role of a storyboard	
	Be able to <b>format</b> a		(Iteration) and apply it within	programs	components of computer	when designing apps.	
	spreadsheet.	Lesson 2 – Digital Graphics &	simple programming		systems.	Understand the layout if MIT	
	Understand cell referencing.	Purpose.	scenarios.	Lesson 3	Understand how computers	app inventor (Incl. Palette,	
	(Relative).			Learn how to use different	represent sound and images in	designer and components).	
	Learn how to create	Understand why digital	Lesson 3	data structures such as arrays	digital format.	Learn how to create a simple	
	graphs/charts to emphasize	graphics are used, including:	Learn how to incorporate	and lists in structured	Learn how to maximise storage	app from a design and then	
	results after data analysis.		variables into simple	programs, that also include	capacity using compression	test it using a tablet.	
		to entertain, to inform, to	procedures using images	animation	algorithms (Lossy / Lossless),		
	Lesson 3	advertise, to promote and to	Learn how to use simple		and RLE (Run length Encoding)	Lesson 3	
	Be able to create and <b>format</b> a	educate	animation and graphics		when applied to dictionaries.	Understand the different	
	power point slides for	Hadarstand barrelinis	To understand how to modify			components in the Tool bar	
	professional use.	Understand how digital graphics are used, including:	control properties			(within app inventor)	
	Learn how to incorporate link to	graphics are used, including.			Lesson 3	Learn how to use the canvas	
	internal and external resources	magazine covers, CD/DVD			Understand the importance of	to design apps.	
	within documents.	covers, adverts, web images			Boolean Logic when processing	Learn how to use simple logic	
		and graphics, multimedia			instructions on computer	operations in apps.	
	Lesson 4	products, games.			systems.	Learn how to use variables,	
	Be able to combine multiple				Learn about the different logic	and other components such as	
	applications to complete a task,				operations	the timer, scores, noise,	
	based on a business scenarios	Lesson 3 – Making a MOVIE			(AND/OR/NOT/EXOR) and their	speed, direction.	
		poster.			corresponding truth tables		
		Understand features of			Learn how to draw simple logic		
		graphic products such as:			circuits using logic diagram		
		Rule of thirds			notation	Lesson 4	
		o Margins				Learn how to display app code	
		Create a new document with				using general purpose	
		correct properties				applications.	
		Compile an image using basic				Understand the benefits of	
		techniques such as:				commenting app (program)	
		<ul><li>Crop and move</li></ul>				code	
		o Text				Understand the difference	
		o Eraser				between iterative and final	
		o Layers				testing (of apps)	
		, , , , ,				Learn how to write, edit and	
		Lesson 4 – Designing a CD				test simple block-based apps.	
		cover				, and a second appoint	
		Understand how to make					
		effective choices and uses of					
		images					
		Booth and the					
		Be able to change the					
		brightness and contrast of an image					
		Illiage					
		Be able to add shapes and					
		change their stroke and fill					
		Make use of the paint brush					
		tool and change brushes					
		Apply filters to a layer					
Prior	Understanding of simple text	Fireworks	Understanding of block-based	Understanding of block-based	Understanding of text and	Understanding of text and	
Knowledge	editors, understand basic	File Formats	programming languages	programming languages	block-based programming	block-based programming	
Required	formatting features used in MS				languages	languages	
	Office				Understand how to use a tablet		

						Understand how to use a tablet
Feedback Points	Teacher feedback (Verbal) based on tasks End of topic quiz/progress based on techniques	Verbal Feedback Peer Assessment Self-Assessment	Verbal Feedback (teacher) Peer Assessment Self-Assessment	Verbal Feedback (teacher) Peer Assessment Self-Assessment	Verbal Feedback (Teacher) Peer Assessment Self-Assessment	Verbal Feedback (teacher) Peer Assessment Self-Assessment
Key Questions	Why should we use formatting in documents? How can spreadsheets save time? Why are some presentations less effective than others?	How are digital graphics used? Why are certain image file types suitable for one purpose but others are not? How can you make a digital graphic more appealing to a target audience?	Why do I need to translate program code into binary before it can be run?	What I the importance of testing computer programs before they are used?	What is hexadecimal? What are the main components of computer systems? How do I record sound on computers? How are images saved on computer systems? How are circuit diagrams used to create circuit boards?	How do I get mobile applications to run on different types of hardware? Why do I need to test phone applications on external devices?
Direct Vocab Instruction	Document, save location, save, formatting, indent, bold, italic, alignment, header, footer, text, link, picture, images, graphics, ruler, page numbers, table, rows, columns, relative, cell, reference, formula, functions, SUM, Borders, Shading, data types, dragging, tabs, worksheet, One-drive, Save-as.	Extraction, Importing, Layers, Selection, Transforming, Typography, Brush, Rubber/Eraser, Magic wand tool, Cropping, Brightness & Contrast, Hue & Saturation, Black & White, Pen Tool, Clipping Mask, Exporting (file formats), PNG, JPEG, PSD.	programming, coding, text, loop, constructs, repetition, selection, sequence, variable, parameter, background, Foreground, image, library, flow, movement, direction, degrees, path, values, execute, run, evaluate, reverse, integer, data, string, print, read, output, display	Forms, controls, buttons, label, textbox, font, font size, colour, indent, alignment, centre, left, right, justify, top, character, data, data type, integer, Boolean, decimal, real, float, long, short, on, off, positive, true, false, syntax, logic, error, testing, incremental, iterative, final, team, logical, concept, planning, flowchart, digit, binary,	Binary, decimal, hexadecimal, conversion, addition, multiplication, number systems, bits, byte, megabyte, integer, tens, hundreds, thousands, power, columns, image, bit depth, audio, sample, resolution, modify, colour depth, sample rate, seconds, sampling, pixel, width, height, CPU, LAN, WAN, Processor, memory, RAM, ROM, Virtual, router, hub, switch, logic, gate, circuit, operation, function, AND, OR, NOT, EXOR, truth table, input, output, display, operation, combined,	Block, app, testing, execution, planning, programming, coding, text, loop, constructs, repetition, selection, sequence, variable, parameter, background, Foreground, image, library, flow, movement, direction, path, values, execute, run, evaluate, reverse, integer, data, string, print, read, output, display, tablet, testing, canvas, palette, designer, buttons, points, direction, noise, storyboard, template, internet, testing, iterative, final testing
Standardised Homework	Research Tasks Quizzes Independent Learning	Reseach based task Exam style questions. Design Based Tasks	Research Tasks. Booklet based tasks. Problem solving Design based	Research Tasks. Booklet based tasks. Problem solving Design based	Research Tasks. Booklet based tasks. Problem solving Design based	Research Tasks. Booklet based tasks. Problem solving Design based