

		BRONZE	SILVER	GOLD	PLATINUM
		D and below= GCSE 1,2,3	C= GCSE 4	C/B= GCSE 5,6	A/A*= GCSE 7,8,9
	Half Term 1 & 2 – E- Safety	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.	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.	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.	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.
YEAR 7		Use presentation software. Use the Internet to carry out Research.	Use presentation software to aid in explanation to an audience for a given purpose. Use the Internet to carry out suitable Research to support an argument.	Use presentation software including features such as animation and transition. Use the Internet to carry out Research to support an argument, giving attention to trustworthiness.	Use presentation software including features such as animation and transition to aid the impact of a presentation. Use the Internet to carry out Research to support an argument, giving attention to trustworthiness, design and usability.
	Half Term 3 & 4 - Sratch	Use a block base programming language, to solve a variety of computational problems; make appropriate use of data structures; design and develop modular programs that use procedures or functions.	Use a block base programming language, to solve a variety of computational problems; make appropriate use of data structures; design and develop modular programs that use procedures or functions.	Use a block base programming language, to solve a variety of computational problems; make appropriate use of data structures; design and develop modular programs that use procedures or functions.	Use a block base programming language, to solve a variety of computational problems; make appropriate use of data structures; design and develop modular programs that use procedures or functions.



	The following series of "I	The following series of "I	The following series of "I	The following series of "I
	can" statements apply to	can", statements apply to	can", statements apply to	can", statements apply to
	this unit of work:	this unit of work:	this unit of work:	this unit of work:
	I can plan, create and	I can plan, create and	I can create a detailed	I can explain the difference
	evaluate a basic game.	evaluate a game.	design making reference to	between a forever and
			target audience including a	repeat function and create
	I can create simple blocks of	I can create a design for my	simple flowchart.	code in Scratch confidently.
	code using Scratch.	game to show the layout		
		and sprites.	I can create more complex	I can create a detailed flow
	I can create a simple design		code including repeat and If	diagram and/or pseudo
	for my game to show the	I can create simple blocks	function.	code to help plan the game
	layout and sprites.	of code using Scratch.		taking into account
		I can use a number of	I can draw complex shapes	audience and purpose.
		sprites which use different	by using the repeat script.	
		logic.		I can nest functions by
			I can make my own	putting one script block
		I can control sprites by	variables and adapt my	inside another script block.
		using the keyboard.	game logic to reflect their	
			value.	I can use broadcast
		I can use scratch to draw		messages to communicate
		shapes.	I can complete the game to	between sprites.
		I can use simple variables.	include a winning and	
			losing condition and test	I can provide a detailed self-
			that it works correctly.	evaluation about what I
				have learnt in this project.
Spreadsheets	Understand the use of	Understand the use of	Understand the use of	Understand the use of
	spreadsheet software to	spreadsheet software to	spreadsheet software to	spreadsheet software to
	model real world situations	model real world situations	model real world situations	model real world situations.
	The following series of "	The following series of "	The following coving of "	
	The following series of "I	The following series of "I	The following series of "I	Create formula confidently
	can , statements apply to	can , statements apply to	can , statements apply to	using appropriate operators
	this unit of work:	this unit of work:	this unit of work:	using BODIVIAS,



				understanding how to use
	Enter data into a	Enter data into a	Understand the difference	brackets to change the
	spreadsheet and identify	spreadsheet and identify	between entering text and	order of calculation.
	cell references correctly.	cell references correctly.	numbers.	
				Understand the difference
	Apply some basic formatting	Apply some basic	Create formula confidently	between entering text and
	to a spreadsheet.	formatting to a	using appropriate	numbers using different
		spreadsheet.	operators using BODMAS.	formatting options to
	Use the basic functions			display the data.
	SUM, AVERAGE, MIN and	Use more complex	Format a spreadsheet	
	MAX in a spreadsheet.	functions SUM, AVERAGE,	appropriately including	Add conditional formatting
		MIN and MAX in a	changing column widths,	to a spreadsheet.
	Sort a spreadsheet and	spreadsheet.	merge and centre and	
	apply a basic filter with help.		currency formatting.	Use the COUNTA and text
		Sort a spreadsheet and		functions.
	Use the > and < operators in	apply a basic filter	Use AutoFill to replicate	
	a formula correctly.	independently.	formulae.	Use advanced filtering
				criteria.
	Create a bar and pie chart.	Use the > and < operators	Understand the difference	
	Use relative cell references	in a formula correctly.	between absolute and	Evaluate different chart
	and absolute cell		relative cell references.	types for a purpose.
	references.	Create a bar and pie chart.		
			Model data to get answers	Create a spreadsheet and
	Change data in a	Use relative cell references	out of a spreadsheet.	graph from scratch and use
	spreadsheet.	and absolute cell		the graph to answer
		references.	Create a working	questions.
	Recreate a basic		spreadsheet following text	
	spreadsheet from	Change data in a	instructions without	
	screenshot with limited	spreadsheet.	guidance.	
	guidance.			
		Recreate a basic		
		spreadsheet from		
		screenshot with limited		
		guidance.		



	Half Term 6 –	Understanding of physical	Understand that	Understand that computers	Understand that computers
	Physical Computing	components.	computers can act on data	can act on data from	can act on data from
			from sensors after being	sensors after being	sensors after being
		Correctly connect	programmed.	programmed making them	programmed making them
		components.		autonomous.	autonomous.
			Create simple text based		
		Create simple text based	programs with guidance.	Create simple text based	Create text based programs
		programs / sequences of		programs independently.	including iteration
		instructions with guidance.	Create sequences of		independently that work on
			instructions with guidance.	Create sequences of	a microcomputer or
				instructions independently.	simulation.
	Term 1 – Technology	Understand the hardware	Describe the difference	Perform Internet research	Internet research into Input
	& Networks	used with modern	between hardware and	into some more unusual	Devices.
		computers.	software.	input devices - ORC MICR	
					Create a presentation
		List a number of	Identify several pieces of	Name several brands of	describing the difference
		applications and describe	hardware for each	each category of software.	between the 3 types of
		what they can be used for.	category.	man and a factor of the state of the factor of	software.
		Datail the bistom of		Explain now the digital	Create a break was an Claud
		Detail the history of	inte ather leget devices	divide can affect people.	Create a brochure on cloud
~		Computing.	into other input devices.	Explain what is meant by	Computing.
8 18		Be able to search for	Understand the difference	cloud computing and	List most of the hardware
Yea		information using the	between application	identify advantages	and software needed to
		Internet	software operating		connect to a network
		internet.	system utility software	Describe the advantages	
		Digital Divide research task	and identify a few different	and disadvantages of 3	Give practical advice on how
			pieces of software from	different network	to avoid some of these
		Be able to describe what a	each group.	topologies and explain how	dangers.
		Network is and identify at	3	data flow on a network	
		least one Network	Detail the history of	may be disrupted.	
		Topology.	Computing and how it's	,	
			developed.	Use IPCONFIG to find out	
				your workstation's IP	



	Be able to describe the	Know the difference	Address. Use PING to find	
	difference between LAN and	between Internet and	out if a network is	
	WAN.	WWW.	connecting to an IP	
			Address.	
	Identify what some of the	Explain what is meant by		
	threats are.	Cloud Computing.	Create a brochure to tell	
			people about the threats	
		Digital Divide research task.	including how they are	
			transferred and what they	
		Describe the advantages	can do to a computer	
		and disadvantages of 2	system.	
		different network		
		topologies.		
		Explain what some of the		
		threats are to Networks.		
Half Term 2 - Flowol	Design computational	Design, use and evaluate	Use a mimic in Flowol with	Understand errors in
	concepts that model the	computational concepts	inputs, processes and	flowcharts and apply their
	state and behaviour of real-	that model the state and	outputs.	skills to fix them.
	world problems using	behaviour of real-world		
	flowcharts.	problems using flowcharts.	Create automated	Apply their knowledge of
			flowcharts.	Flowol using subroutines to
	Order the instruction to	Describe what each		complete mimics.
	operate a Zebra crossing.	flowchart symbol does.	Call a procedure to	
	Identify what each	Order the instruction to	complete common tasks.	I can construct a Flowchart
	flowchart symbol does.	operate a set of traffic	Create a flow chart using	using a Variable.
		lights.	multiple sensors.	
	Create a basic flowchart for			Create more than one
	a real life situation E.G.	Use a mimic in Flowol with	I can construct a Flowchart	flowchart to control a
	making a cup of tea.	inputs, processes and	using a Sub Routine.	sequence of events using
		outputs.		more than one DECISION,
	Use a mimic in Flowol.		I can point out what has	OUTPUT, and DELAY.
		Understand how sensors	gone wrong in a faulty	
		are used in flowcharts.	control system and suggest	



	Use the correct flowchart		how this might be	Combine a sequence of
	symbols for a basic mimic.	Identify a VARIABLE in a	corrected.	instructions into more than
		SUB-ROUTINE in an existing		one SUB-ROUTINE and used
	Create a flowchart to	flowchart.	Combined a sequence of	these in a main flowchart.
	control a short sequence of		instructions into a SUB-	
	events using OUTPUTS and	Give examples of common	ROUTINE and used this in a	
	DELAYS.	types of SENSORS used in	main flowchart.	
		control systems.		
	Repeat a sequence of		Explain the purpose of a	
	instructions using a LOOP.		VARIABLE in a SUB-	
			ROUTINE or flowchart.	
	Explain how a control		Select the SENSORS that a	
	system might be dangerous		new control system will	
	if it did not work properly.		need and justify my	
			choices.	
Half Term 3 -	I can give examples of a	Create queries using	Understand how data in a	Create a calculated query.
Database	paper-based and electronic	multiple criteria.	table and a form are linked	
	Databases.		together.	Explain why we use primary
		Create a query using two		key in tables and how they
	Discuss advantages and	tables.	Use wildcards to search for	are useful to people using
	disadvantages of paper-		more flexible data.	Databases.
	based and electronic	Understand the term		
	Databases.	Relational Database and	Create queries using logical	Add validation to a database
		flat-file database.	operators.	and explain why it is used.
	Create a table, name the			
	fields, select the data type	Define different data types	Create a query three tables.	Explain what VB is and how
	with help and add data.	used in a Database.		it is used in a Database.
	Understand difference	Identify the Primary Key in		
	between fields and records.	tables.		
	Open a Database and create	Create and format reports.		
	queries using simple			
	criteria.	Create and format Forms.		



	Select suitable field sizes for all text fields from datasheet. Create basic queries. Create simple forms and reports. Understand the difference between a flat file and Relational Database.			
Half Term 4 - Python	Create simple code including the input and print scripts/function. Follow a sequence of instructions. Enter a program in idle and run it. Define what a variable is. Understand expression and their operators. Recognise different types of data: text, number, instruction	Create variables. Use If statements to make a decision. Use the random function in your programs. Describe operators, expressions and truth tables. Store a user input variable and write, save and run their first python program.	Use operators to effectively create programs so solve a number of scenarios. Write a Python function Use more complex If statements including "elif" allowing the program to have a conversation. Think through pseudo code and discus what it will achieve	Create If statements within other If statements. Use For and While loops in your programs Create simple games using Python. Write your own program to meet a requirement.
Half Term 5 – Animated Banner	Use the drawing tools to create a simple shape.	Build in pauses into your animation to make it easier to understand.	Create multiple layers to their animation.	Add additional layers.



Half Term 6 -	Export the animation as an animated GIF. Follow a design brief. Create an animation suitable for a target audience. Be able to discuss what makes a good or bad animated banner. Look at a different websites	Import images into the animation. Add different timings to frames, ensuring the animation is understandable and easy to read.	Add timeline effects to their animation. Import and edit images into the animation Describe what makes a	Stagger the start of some parts of the animation to make them more understandable.
Website	 and describe the areas you like and don't like, understanding good and bad points. Add text to a webpage and format it. Give basic details of some pages you want to include in your website. Create a basic webpages including text and images. Add a basic hyperlink to a webpage. 	 websites and suggest improvements. Describe details of all pages you want to include in your website. Insert relevant images to your website. Add other types of hyperlinks to link webpages together. Discuss what is meant by 'House Style' and why it is used. 	good website and why. Give comprehensive details of all pages you want to include in your website ensuring you explain the reasons why you are going to add specific information. Create tables and hyperlinks in your webpage. Insert rollover images to your website. Create a professional looking website and make	 evaluation of your website and make suitable suggestions for improvements. Insert animated GIFs to the website. Create a completed, professional looking and error-free website. Discuss a range of software that can be used to create websites.
	each of your webpages. Have a three page website suitable for purpose.	Have a five page website with pages linked together.	all the links work correctly.	



			Make sure all the	Suggest improvements to	
		Perform some basic tests on	webpages are completed,	other peoples' websites.	
		your own website.	the links work and they are		
			spell checked.		
		Discuss the good and bad			
		points of your own	Perform a thorough test of		
		websites.	your own website.		
			Discuss the good and bad		
			points of other peoples'		
			websites.		
	Half Term 1 - Scratch	I can plan, create and	Write programs with	Test their program entering	Independently develop the
		evaluate a complex Scratch	instructions in the correct	several different values and	game,
		game.	order.	use information from this	
				to comment on how well	Create the game using a
		I can complex blocks of code	Create a detailed	their program works.	different programming
		using Scratch.			language.
			Make a working program	Describe how you	
		I can create a plan for my	which includes all	overcame a problem in	
		game using Pseudo code or	functionality as described	making your game, any	
6		flowcharts.	in the task.	bugs that exist in the	
<u> </u>				program or any future	
a		Follow instructions to create	Test their program	improvements that could	
e		a Scratch game	entering different values.	be made.	
		is and why it is used in	Describe one of: How you		
		is and why it is used in			
		programming.	hugs that exist in the		
		Use most of the following	program or any future		
		techniques: Outputting to	improvements that could		
		screen storing data in	he made		
		variables selection using IF	Se made.		
		Iteration an arithmetic			
		techniques: Outputting to screen, storing data in variables, selection using IF, Iteration, an arithmetic	improvements that could be made.		



		operator, comments on your code. Make a program that has some of the functionality described in the task. Add suitable comments to their programs. Create a basic test plan			
-	Half Torm 2:	With constant support:	All of the above with some	All of the above with	
	Controlled	Identify key requirements of	support.	limited support	
	Assessment 1 –	a program.			
	Programming Task				
	50% of Qualification	Develop a method of			
	Bronze (Level1) –	planning the flow of a			
	expected to achieve	program (e.g. flowcharts,			
	qualification 40%	pseudo code or algorithms).			
	Silver (Level 2) – 60%	Plan a program they intend			
	Gold (Level 3) – 80%	to write.			
	In this strand,				
	candidates will be	Output to text or movement			
	expected to plan,	on screen			
	write, test and				
	evaluate a simple	Store an input in a variable.			
	program. Their	Write programs with			
	project will	instructions in the correct			
	incorporate the	order.			
	following: Planning,				



	Input and Output.	Make a program execute			
	Sequence. Selection.	something IF a given			
	Iteration Arithmetic	condition is true.			
	Operators				
	Commonts and	Use a loop in a program to			
		execute statements multiple			
	Testing and	times.			
	Evaluation.				
		Use an arithmetic operator			
		within a program.			
		Add suitable comments to			
		their programs.			
		Make a working program			
		which includes all			
		functionality as described in			
		the task.			
		Test a preserve werke in the			
		rest a program works in the			
		way it is expected to work.			
		Evaluate a program they			
		have written			
		have written.			
		With constant support.			
F	Half Term 3:	With constant support:	All of the above with some	All of the above with	
	Controlled	Describe a development in	support.	limited support	
	Assessment 2 –	computing.			
	Research Task 20%				
	of Qualification	Describe different examples			
		of the use/application of			
		that technology.			



Propos (Loval1)	Describe their impact				
Brolize (Level1) -	Describe their impact.				
expected to achieve	Use technical terms when				
qualification 40%	describing their				
Silver (Level 2) – 60%	development				
Gold (Level 3) – 80%					
In this strand	Describe examples of				
candidates are	ethical, social and legal				
expected to research	considerations related to				
a computing related	their chosen development:				
technology (such as					
mobile phones,	Ethical considerations are				
social networks).	when we look at whether				
They will then	things that happen are				
communicate these	considered as wrong or				
findings through a	unfair.				
presentation/report.					
Evidence may take	Legal considerations are				
the form of, but is	things that happon are				
not limited to,	against the law				
presentations, word	against the law.				
processed reports,	Social considerations are				
video or audio	when things happen that				
recordings.	change the way we live our				
	lives).				
Half Term 4:	Identify the components of a computer e.g. input, output and storage devices				
Assessment 3 –	Identify the basic function of the common internal components of a computer e.g. motherboard, CPU, RAM, ROM,				
Hardware, Software	graphics cards, sound cards, hard disks				
and Binary Logic	Identify the basic functions of common peripherals e.g. camera, keyboard, microphones, monitor, mouse, scanner,				
Exam 30% of	speakers, printer.	a is pooled including its funct	ions		
Qualification	Describe the difference betwee	en application software and s	iulis ustem software		
Describe the difference between application software and system software					



Bronze (Level1) – expected to achieve qualification 40% Silver (Level 2) – 60% Gold (Level 3) – 80% This strand consists of three broad sections on which the tests will be based. These sections include Hardware, Software and Logic.	State the purpose of different application software e.g. presentation, desktop publishing (DTP), spreadsheet, database, image editing, web browsing, word processing State the purpose of different system utilities e.g. computer security (antivirus, spyware protection and firewalls), disk organisation (formatting, file transfer, and defragmentation), and system maintenance (system information and diagnosis, system clean-up tools, automatic updating).						
Half Term 5 – Video Unit	Describe the aim of the video clip.	Describe the aim and the audience of the video clip.	Export the video clip with some compression.	Exported the video in the correct format to a mobile			
	Create a simple storyboard covering the main elements. Create a video clip that is at least 30 seconds in length. Made use of: importing components, editing clips, transitions and at least one audio clip. Evaluate your video clip with relation to the plan and its purpose.	Create a detailed storyboard covering the main (all) elements. Describe how the video clip is appropriate. Add effects to your video clip. Included titles to your video clip. Include a sound track with more than one sound clip.	Describe how the video clip is appropriate AND meets its aims. Have split tracks that are in your video clip. Included narration as part of your sound track. Justified the suitability of the export of the video clip, explaining why other formats were not suitable.	phone. Discussed different types of video software that can be used and how the format of a video can change.			



	Considered the	Evaluated your video clip	Evaluated your video clip			
	appropriateness and quality	with relation to its purpose	with relation to its purpose			
	of the components.	and the intended audience.	and the intended audience.			
	Identified at least one area	Included the opinions of	Consider how closely you			
	for improvement.	others in your evaluation.	followed the plan and			
		Identify and explained at	explained where you have			
		least one area for	deviated from it and why.			
		improvement.				
			Discuss the			
		Your video clip has been	appropriateness and			
		exported in a suitable file	quality of the components			
		format.	and the quality.			
			appropriateness and			
			effectiveness of the final			
			clin			
			Include the opinions of			
			others			
			Identify and explained at			
			losst two props for			
			improvement			
			improvement.			
Half Term 6:	work independently on the following skills:					
Extended Task –						
Programming (GCSE	Identify key requirements for task.					
Computing), Video						
Unit, Animation or	Develop a method of planning out what you are required to do e.g. storyboard Flowchart, Pseudo code etc					
Creating a Website						
(CiDA Pupils).	Make use of: importing components, editing clips, transitions etc					
	Create and Develop project.					
	Spot and change errors in work e.g. On code, website, etc					
	Calf avaluate work					
	Self-evaluate work.					



Written evaluation looking at good and bad points and how to improve work.