Term		2	3	4	6	5
Fopic Title	Introduction to IT/Computing at SJN, basic	Social Media awareness and Computational	Suitable passwords. Creating a website for a	Spreadsheet model. Revision	Programming using Scratch and Micro bit	How the web works
	understanding of the computer	Thinking	specific audience	and Assessment		
Rationale	Learners will be introduced to the SJN network	Using the theme 'Speed Friending' learners will	Learners will explore the importance of suitable			Year 7 will learn that the Internet is a global
	being issued with usernames and passwords in	explore social media and how young people can	passwords and their role in keeping date and	to allow them to create a spreadsheet model looking		resource that comprises of millions of connected
	order to access the network and set up their file management system; they will be made aware of	safely make friends and communicate. They will carry out a role play identify what is safe friending	information secure. They will suggest/ be taught what makes a good password.	at different scenarios. Learners will need to be taught how to set up a spreadsheet, formatting,		computers and it is this infrastructure that hosts the World Wide Web. Learners will be introduced to
	the rules for safe and acceptable working practices	and risky behaviours.	Learners will design, implement and evaluate a	simple formulae/functions to perform calculations	, , ,	Boolean operators to enable them to refine criteria
	as detailed in the Acceptable Use Policy. The next	Learners are introduced to the binary number	multiple page website. They will learn about what	and hyperlinks.	5	to make searching for information more efficient.
	stage is to be taught how to use the Office365	system, they will be taught that this is how	makes a good website e.g. colours, fonts, layout,	Learners to reflect on learning to date. Formal		They will look at URLs and the different elements
	utilities to enable learners to access the whole school curriculum.	computers store data. Using a conversion table learners will be taught how to convert between	navigation, audience and purpose. Using storyboards and sketches learners will design the	assessment.		that identify the web address and how to ensure they work appropriately by acknowledging sources.
	Using the North Lincs Social Media Charter learners	Base10 and Base2; more able learners may explore	individual webpages, the designs will then be		meet the demands of the task. Learners will be able	acknowledging sources.
	will explore the positive and negative aspects of	Hexadecimal and be able to do simple conversions.	implemented using a range of tools and techniques		to transfer the skills to create games to meet their	
	social media; it is important to deliver this early in	What is an algorithm? Using Computational	available in WIX.		own specifications.	
	the academic year as young people may begin to use mobile and online communications more	Thinking earners will explore the process of breaking down a problem using Decomposition,			Learners are introduced to the MICRO BIT, they will be presented with opportunities to develop code	
	independently as they begin secondary education. It	Pattern Recognition and Abstraction in order to be			using precise instructions, compile and flash the	
	is recommended that this is visited regularly as new	able a write an Algorithm to resolve the problem.			code to a device. As learners increase in confidence	
	developments emerge. Learners will be introduced				they will be able to create more creative and	
	to the main components of a standard computer system, this will give them a basic understanding of				challenging programs.	
	the input, process, output cycle of data. This is					
	followed by a brief history of computing to allow					
	learners to appreciate that computing is the					
	processing of data and how this has developed					
	through the ages.					
Prior knowledge	Learners will have varying experiences of IT and Computing depending on the primary provision,	It is assumed that learners will have some E-Safety knowledge from primary school and are aware of	This will build on the learning at the beginning of the academic year when learners were issued with	This is an opportunity to revisit all prior learning.	Some learners may have experienced some basic Scratch lessons at primary school; however the unit	It is assumed that learners will know what a
	however it is assumed that learners will have	the most common social media platforms. To	username and passwords.			websites both in and out of school.
	encountered some type of computerised equipment.	access the Binary work learners will need to know	It is assumed that learners will know what a website		Scratch is a valuable stepping stone for learners	
		that we use a base10/decimal system in everyday	is and have accessed age appropriate sites as part		prior to starting work with the Micro bit.	
		life. To access the work on Algorithms learners will require a	of their learning.			
		reasonable level of literacy.				
Key knowledge/skills	Learners will independently log into the SJN network		Now that learners have had access to SJN	Learners will build their confidence of using	Learners will develop their logical thinking and	Learners will gain a better understanding of the
development	to access a range of resources, they will work safely following the H&S guidelines. Learners will have a	the knowledge of how to identify risky behaviour and	Computing facilities both at school and home they will appreciate the need to keep data and	spreadsheets, something many of them will never have used before. Students will be able to construct		enormity of the Internet and the WWW. They will be able to search more efficiently using AND, OR,
	basic knowledge of what computing is and can		information secure.	formula using the correct formulas / functions so		NOT; this will provide an opportunity for learners to
	name the input and output devices connected to a		Creating a website will help learners develop an	they can understand how the use of spreadsheets		see how data travels across the Internet to be
	standard PC.	number conversions. Learners will be able to	awareness of audience and purpose and the need	can increase productivity. Consolidate all skills/ knowledge acquired		delivered to their computer.
		break down a problem by identifying the key information, using what they have learned they will	to have this at the forefront when designing any digital content; they will also understand that a	throughout the year.		
		write a simple plan/ algorithm to create a solution.	website must be easy to navigate to retain the user			
			interest.			
National Curriculum/	Know that computers collect data from various input	Knows how to be responsible online (good	Personalizes the audience when designing and	Collecting and analysing data, creates digital	Learners will create programs that implement	Identifies the difference between the Internet and
National Curriculum/ specification links	Know that computers collect data from various input devices and process this to output information.	netiquette) and how to report concerns and protect	Recognises the audience when designing and creating digital content. Collects, organises and	content by combining software applications and		Internet services. Is able to effectively use search
	Understand the difference between hardware and	their own online identity; recognises ethical issues	presents data and information in digital content.	internet services. Makes judgments about data,	and use variables and operators within a loop and to	
	software. Uses technology with increasing	surrounding IT beyond school.	-	perform formula and functions	terminate a program.	example, AND, OR and NOT]. Is able to select and
	independence to organise workspace and digital	Knows that digital computers use binary to				use Internet services.
	content.	represent all data. Understands that algorithms are implemented on				
		digital devices as programs; can design simple				
		algorithms				
	Researching key figures throughout the history of	Exploring the root words behind the different			Writing scripts for conflict resolutions.	Boolean operators and how a statement can be
iteracy			1			phrased in such a way that it can be either true or
Literacy	computing through online extracts and writing up	number systems, Hexadecimal (16), Binary (2) and				
Literacy		Denery (10) and how those words describe the				false.
-	computing through online extracts and writing up	Denery (10) and how those words describe the number systems.	Relating the size of individual elements on a	Automating and performing calculations using excel		false.
Literacy Numeracy	computing through online extracts and writing up	Denery (10) and how those words describe the number systems.	Relating the size of individual elements on a webpage, links to percentages and ratios.	Automating and performing calculations using excel code		
Numeracy	computing through online extracts and writing up their contributions in their own words.	Denery (10) and how those words describe the number systems. Binary, Denery and the concept of different number systems. Evaluating problems and coming up with creative,	webpage, links to percentages and ratios. Password standards and safety. The creative desigr	code Making efficient use of spreadsheet software by	The relationship between high level code and the binary code that the processor uses.	false. Boolean operators and logical statements. Finding and citing reliable sources by critically
Numeracy	computing through online extracts and writing up their contributions in their own words.	Denery (10) and how those words describe the number systems. Binary, Denery and the concept of different number systems.	webpage, links to percentages and ratios.	code Making efficient use of spreadsheet software by analysing problems and creatively coming up with	The relationship between high level code and the binary code that the processor uses.	false. Boolean operators and logical statements.
Numeracy STEM	computing through online extracts and writing up their contributions in their own words. Understanding and following rules for safe working conditions. Using office software in both an individual and group context.	Denery (10) and how those words describe the number systems. Binary, Denery and the concept of different number systems. Evaluating problems and coming up with creative, logical, solutions in the form of algorithms.	webpage, links to percentages and ratios. Password standards and safety. The creative design process, specifically relating to websites.	code Making efficient use of spreadsheet software by analysing problems and creatively coming up with solutions.	The relationship between high level code and the binary code that the processor uses.	false. Boolean operators and logical statements. Finding and citing reliable sources by critically evaluating relevant articles on the internet.
Numeracy	computing through online extracts and writing up their contributions in their own words.	Denery (10) and how those words describe the number systems. Binary, Denery and the concept of different number systems. Evaluating problems and coming up with creative,	webpage, links to percentages and ratios. Password standards and safety. The creative desigr	code Making efficient use of spreadsheet software by analysing problems and creatively coming up with	The relationship between high level code and the binary code that the processor uses.	false. Boolean operators and logical statements. Finding and citing reliable sources by critically
Numeracy STEM	computing through online extracts and writing up their contributions in their own words. Understanding and following rules for safe working conditions. Using office software in both an individual and group context. Close links with Technology in relation to safe	Denery (10) and how those words describe the number systems. Binary, Denery and the concept of different number systems. Evaluating problems and coming up with creative, logical, solutions in the form of algorithms. Appropriate and safe use of social media has close links with PSHCE/Citizenship. Working with number systems, conversions, addition and subtraction links	webpage, links to percentages and ratios. Password standards and safety. The creative design process, specifically relating to websites.	code Making efficient use of spreadsheet software by analysing problems and creatively coming up with solutions.	The relationship between high level code and the binary code that the processor uses.	false. Boolean operators and logical statements. Finding and citing reliable sources by critically evaluating relevant articles on the internet. This topic links with most subjects in respect of
Numeracy STEM	computing through online extracts and writing up their contributions in their own words. Understanding and following rules for safe working conditions. Using office software in both an individual and group context. Close links with Technology in relation to safe	Denery (10) and how those words describe the number systems. Binary, Denery and the concept of different number systems. Evaluating problems and coming up with creative, logical, solutions in the form of algorithms. Appropriate and safe use of social media has close links with PSHCE/Citizenship. Working with number	webpage, links to percentages and ratios. Password standards and safety. The creative design process, specifically relating to websites.	code Making efficient use of spreadsheet software by analysing problems and creatively coming up with solutions.	The relationship between high level code and the binary code that the processor uses.	false. Boolean operators and logical statements. Finding and citing reliable sources by critically evaluating relevant articles on the internet. This topic links with most subjects in respect of
Numeracy STEM Cross curricular links	computing through online extracts and writing up their contributions in their own words. Understanding and following rules for safe working conditions. Using office software in both an individual and group context. Close links with Technology in relation to safe working practices.	Denery (10) and how those words describe the number systems. Binary, Denery and the concept of different number systems. Evaluating problems and coming up with creative, logical, solutions in the form of algorithms. Appropriate and safe use of social media has close links with PSHCE/Citizenship. Working with number systems, conversions, addition and subtraction links with Maths.	webpage, links to percentages and ratios. Password standards and safety. The creative design process, specifically relating to websites. Audience and purpose links with Technology.	code Making efficient use of spreadsheet software by analysing problems and creatively coming up with solutions. Calculations will link with maths	The relationship between high level code and the binary code that the processor uses. Logical thinking and programming languages has close links with Maths and MFL.	false. Boolean operators and logical statements. Finding and citing reliable sources by critically evaluating relevant articles on the internet. This topic links with most subjects in respect of finding and using appropriate web resources.
Numeracy STEM	computing through online extracts and writing up their contributions in their own words. Understanding and following rules for safe working conditions. Using office software in both an individual and group context. Close links with Technology in relation to safe	Denery (10) and how those words describe the number systems. Binary, Denery and the concept of different number systems. Evaluating problems and coming up with creative, logical, solutions in the form of algorithms. Appropriate and safe use of social media has close links with PSHCE/Citizenship. Working with number systems, conversions, addition and subtraction links	webpage, links to percentages and ratios. Password standards and safety. The creative design process, specifically relating to websites. Audience and purpose links with Technology. Secure, hacking, audience, purpose, layout, fonts,	code Making efficient use of spreadsheet software by analysing problems and creatively coming up with solutions.	The relationship between high level code and the binary code that the processor uses. Logical thinking and programming languages has close links with Maths and MFL. Code, sprite, script, loop, variable, avatar,	false. Boolean operators and logical statements. Finding and citing reliable sources by critically evaluating relevant articles on the internet. This topic links with most subjects in respect of