			Curriculum Overvie Subject: Computin			
	Autumn	Autumn	Spring	Spring	Summer	Summer
Nursery	Can you sing your favourite nursery rhyme>	What makes a good friend?	What colours can I see around me?	Which pet will I choose?	What is your favourite food?	Can you tell me a story?
Units	Barefoot - Busy Bodie	s (x 4 lessons)	Barefoot – Boats Ahoy	y (x 4 lessons)	Barefoot – Super Spa	ce (x3 lessons)
Computational Thinking - Concepts and Approaches			Logic, Pattern, Abstraction, Tinkering, Pattern, Decomposition, Collaborating, Algorithms, Creating		Algorithms, Collaborating, Persevering, Creating, Pattern, Logical reasoning, Tinkering Abstraction	
Online Safety Scheme: National Online Safety	Self-Image and Identity (4 lessons + 2 follow up tasks) - I can name and recognise uncomfortable, embarrassed, and upset emotions - I can recognise, online or offline, that anyone can say 'no thank you'/ 'please stop'/ 'I'll tell'/'I'll ask' to somebody who makes them feel sad, uncomfortable, embarrassed or upset Online Relationships (3 lessons + 2 follow up tasks) - I can recognise some ways in which the internet can be used to communicate - I can give examples of how I (might) use technology with people I know		Online Reputation (3 lessons + 2 follow up tasks) - I can identify ways that I can put information on the internet. Online Bullying (3 lessons + 2 follow up tasks) - I can describe ways that some people can be unkind online - I can offer examples of how this can make others feel.		Opportunity to revisit previous units/consolidate learning	

Autumn term x 2 units	Spring term x 2 units	No units in Summer Term
		Lance III
		7 . I
		1

	Autumn	Autumn	Spring	Spring	Summer	Summer
Reception	What makes me great?	Why do we celebrate?	Where do I live?	What job do I want to have?	How do things grow?	How do we get there?
Units	Barefoot - Awesome Autumn (x 3 lessons)	Barefoot – Winter Warmers (x 3 lessons)	Barefoot – Spring Time	e (x 3 lessons)	Barefoot – Summer F	un (x 3 lessons)
Computational Thinking - Concepts and Approaches	Algorithms, Decomposition, Collaborating, Logic, Creating, Pattern	Algorithms, Decomposition, Creating, Collaborating, Logic, Tinkering, Persevering, Pattern				
Online Safety Scheme: National Online Safety	Managing Online Information I can talk about how to use the internet as a way of finding information online. I can identify devices I could use to access information on the internet Health, Well-being and Lifestyle I can identify rules that help keep us safe and healthy in and beyond the home when I am using technology. I can give some simple examples of these rules I can apply these rules during my play I can link feelings to my online experiences		Privacy and Security I can identify some simple examples of my personal information (e.g. name, address, birthday, age, location) I can describe who would be trustworthy to share this information with; I can explain why they are trusted. Copyright and Ownership I know that work I create belongs to me I can name my work so that others know it belongs to me I can express how I felt when I created this		Opportunity to revisit previous units/consolidate learning	

	I can share my work with a friend	
Autumn term x 2 units	Spring term x 2 units	No units in Summer Term



	Autumn	Autumn	Spring	Spring	Summer	Summer
Y1	What is in the world around me?	Am I making history?	How do we know London are cities	Birmingham and	Do all superheroes	
Units	Teach Computing Computing systems and networks – Technology around us	Teach Computing Programming A – Moving a robot	Teach computing Data and information – Grouping data	Word processing using Jit5 write	Teach computing Creating media – Digital painting	Teach Computing Programming B – Programming animations
Software	https://paintz.app Jit5 Write	Beebots, Scratch Jr.	Microsoft powerpoint/J2offic e	Jit5 Write Typing.com	Jit5 Paint	Beebots, Scratch Jr.
Final project			Maths Group data to answer questions about shapes	Geography Create a word processed document about Birmingham/London	Science Create a piece of artwork of plants in different seasons	
Evidence	Use Jit5 Write – pupils will need to be shown how to save their work! Copy chosen pupil's work into BGFL 'staffroom' folder	Using iPad, record 4 pupils SEN/BARE/ARE/ARE+ . Save into BGFL 'staffroom' folder	Copy 'Digital worksheet' into 'my files' on BGFL, share with pupils (pupil's work will then save automatically) Copy chosen pupil's work into	Accounts required for Typing.com Jit5 Write – remind pupils to save their work Copy chosen pupil's work into BGFL 'staffroom' folder	Pupils use Jit5 Paint – remember to save Copy chosen pupil's work into BGFL 'staffroom' folder	Using iPad, photograph/video pupils' Scratch projects (4 pupils SEN/BARE/ARE/ARE +). Save into BGFL 'staffroom' folder

		BGFL 'staffroom' folder	
Online Safety Scheme: National Online Safety	Self Image and Identity I can recognise, online or offline, that anyone can say 'no'/'please stop'/'I'll tell'/'I'll ask' to somebody who makes them feel sad, uncomfortable, embarrassed or upset. I can recognise that there may be people online who could make someone feel sad, embarrassed or upset. If something happens that makes me feel sad, worried, uncomfortable or frightened, I can give examples of when and how to speak to an adult I can trust and how they	Online Bullying I can describe ways that some people can be unkind online. I can offer examples of how this can make others feel. I can describe how to behave online in ways that do not upset others and can give examples. Managing Online Information I can talk about how to use the internet as a way of finding information online.	Privacy and Security I can identify some simple examples of my personal information (e.g. name, address, birthday, age, location). I can describe who would be trustworthy to share this information with; I can explain why they are trusted. I can explain that passwords are used to protect information, accounts and devices. I can recognise more detailed examples of information that is personal to someone (e.g. where someone lives and goes to school, family names).
	Can help. Online Relationships I can recognise some ways in which the internet can be used to communicate. I can give examples of how I (might) use technology to communicate with people I know.	I can identify devices I could use to access information on the internet. I can give simple examples of how to find information using digital technologies (e.g. search engines, voice activated searching). I know/understand that I can encounter a range of things online, including things I like and don't like as well as things which are real or make believe/a joke.	I can explain why it is important to always ask a trusted adult before sharing any personal information online belonging to myself or others. Copyright and Ownership I know that work I create belongs to me. I can name my work so that others know it belongs to me.

kill progression	I can locate examples of technology in the	I can compare forwards, backwards, left and right turns.	I can describe the properties of	I have completed 'Beginner' Lessons 1- 8 on typing.com.	I can draw lines, make marks on a screen and explain	I can use commands to move a sprite.
	Autumn term x 3 units		Spring term x 3 units	1	Summer term x 2 units	
	put online without as first.	nformation I should not sking a trusted adult				
	I can recognise that in online and could be o		O:O			
	I can identify ways th information on the in	•	200		1	
	Online Reputation				3	
	in the <mark>sam</mark> e way by o	thers.	the home.			
	funny or sad online may not always be seen		when using technology both in and beyond		- 8	
	I can explain why thir	ngs one person finds	I can explain rules to	o keep myself safe	does not belong to m	ne even if I save a copy
	to respect their choice	• •	rules.	ore examples of these	I understand that wo	•
	I can explain why it is considerate and kind		L can give some sim	ole examples of these	to me (e.g. filename,	name on content).
			using technology.	,	title/name so that of	hers know it belongs
	call apps or services).	eople I know (e.g. video		hat help keep us safe beyond the home when	I can save my work u	nder a suitable
		with adult support to	Health, Well-being		designed it' or 'I film	
	explain why this is im	iportant.	sad, uncomfortable	worried or frightened.	I can say why it belo	ngs to me (e.g. 'I
	permission to do som			t that makes me feel	technology belongs t	o me.
		f when I should ask	I know how to get h	•	I can explain why wo	_

delete, technology,	left, right, turn,	highlight, delete,
cursor, keys, save, file	program, debug	character, save, open



Ambitian - Cammunity Equality

		T	Subject: Computing	I		T _
	Autumn	Autumn	Spring	Spring	Summer	Summer
Y2	Why should I go to	Why should I go to Sheldon?		What is it like in Africa?		ne seaside?
Units	Teach Computing Creating media – Digital photography	Teach Computing Programming A – Robot algorithms	Teach Computing Programming B – Programming Quizzes	Word processing using J2Office Writer	Teach Computing Information Technology Around Us	Teach Computing Pictograms
Software	Ipads	BeeBots	Scratch Jr.	J2Office Writer Typing.com	Microsoft powerpoint online	Jit 5 pictogram Jit 5 chart
Final project	Geography Photographs of local landmarks		Geography/science Create a quiz about habitats	Geography Create a word processed document about Kenya	/	Maths/science Make a survey about the seaside using Jit 5 pictogram/Jit 5 chart
Evidence	Using iPad, photograph pupils' final pieces (4 pupils SEN/BARE/ARE/ARE +). Save into BGFL 'staffroom' folder	Using iPad, record pupils' work (4 pupils SEN/BARE/ARE/ARE+). Save into BGFL 'staffroom' folder	Using iPad, photograph/video pupils' Scratch projects (4 pupils SEN/BARE/ARE/ARE +). Save into BGFL 'staffroom' folder	Accounts required for Typing.com J2Office Writer – pupil's work will save automatically	Evidenced through pupil voice/monitoring Please keep any worksheets in computing folder	Pupils save their work on Jit 5 pictogram and Jit 5 chart. Copy 4 pupils' work into BGFL 'staffroom' folder

		Copy chosen pupil's work into BGFL 'staffroom' folder		
Online Safety	Self Image and Identity	Online Bullying	Privacy and Security	
	I can explain how other people may look	I can explain what bullying is, how people	I can explain how passwords can be used	
Scheme: National Online Safety	and act differently online and offline.	may bully others and how bullying can make someone feel.	to protect information, accounts and devices.	
	I can give examples of issues online that			
	might make someone feel sad, worried,	I can explain why anyone who experiences	I can explain and give examples of what is	
	uncomfortable or frightened; I can give examples of how they might get help.	bullying is not to blame. I can talk about how anyone experiencing	meant by 'private' and 'keeping things private'.	
	Online Relationships	bullying can get help.	I can describe and explain some rules for keeping personal information private (e.g. creating and protecting passwords).	
	I can give examples of how someone might	bunying can get neip.		
	use technology to communicate with others	Managing Online Information		
	they don't also know offline and explain	I can use simple keywords in search	creating and protecting passivorus).	
	why this might be risky (e.g. email, online	engines.	I can explain how some people may have	
	gaming, a pen-pal in another		devices in their homes connected to the	
	school/country).	I can demonstrate how to navigate a	internet and give examples (e.g. lights,	
		simple webpage to get to information I	fridges, toys, televisions).	
	I can explain who I should ask before	need (e.g. home, forward, back buttons;		
	sharing things about myself or others	links, tabs and sections).	Copyright and Ownership	
	online.		I can recognise that content on the	
		I can explain what voice activated	internet may belong to other people.	
	I can describe different ways to ask for, give	searching is and how it might be used, and		
	or deny my permission online and can	I know it is not a real person (e.g. Alexa,	I can describe why other people's work	
	identify who can help me if I am not sure.	Google Now, Siri).	belongs to them.	
	I can explain why I have a right to say, 'no'	I can explain the difference between things		
	or 'I will have to ask someone'. I can explain	that are imaginary, made up or make		
	who can help me if I feel under pressure to	believe and things that are true or real.		

Skill progression	I can take photos in a portrait and landscape format	I can follow a sequence.	I can identify the start of a sequence.	I have completed 'Beginner' Lessons 9-15 on typing.com.	I can identify examples of computers and	I can compare totals in a tally chart
	Online Reputation I can explain how information put online about someone can last for a long time. I can describe how anyone's online information could be seen by others. I know who to talk to if something has been put online without consent or if it is incorrect. Autumn term x 3 units		Spring term x3 units	1	Summer term x 2 un	its
	I can explain why I sh trusted adult before 'accept' online.	ould always ask a clicking 'yes', 'agree' or	I can say how those r anyone accessing onl			
	I can explain how it n	nay make others feel if mission or ignore their	I can explain simple g technology in differe	guidance for using nt environments and ng online technologies		
	agree to something I don't want to do. I can identify who can happens online without	n help me if something	I can explain why sor online may not be re Health, Wellbeing an	al or true.		

and explain why a photo looks better in this format I can identify what is wrong with a photograph and improve a photo by retaking it I can explain why a picture may be unclear I can explore the effect that light has on a photo I can recognise that images can be changed I can use a tool to achieve a desired effect I can apply a range	I can predict the outcome of a sequence. I can use an algorithm to program a sequence on a floor robot. I can create an algorithm to meet my goal. I can test and debug each part of the program.	I can predict the outcome of a sequence of commands. I can work out the actions of a sprite in an algorithm.	I can use the 'shift' key to make capital letters. I can start a new line using the 'enter' key. I can change the font size, style and colour. I can make text bold/italics/underlined. I can use the 'undo' and 'redo' icons. I can edit text by moving around the screen (with arrows or with finger).	describe some of their uses I can identify examples of IT and their uses I can identify that some IT can be used in more than one way I can sort IT by where it is found I can demonstrate how IT devices work together I can say how rules can help keep me safe I can talk about different rules for using IT	I can record data in a tally chart using a common attribute I can use pictograms to answer simple questions about objects ('more than'/'less than' and 'most/least' questions about an attribute) I can use a tally chart to create a pictogram I can collect the data I need I can create a pictogram and draw conclusions from it I can give simple examples of why
I can use a tool to achieve a desired		5	moving around the screen (with arrows	can help keep me safe I can talk about	pictogram and draw conclusions from it

	which have been changed				- 1	
Vocabulary	Effects, lighting, framing, landscape, portrait, positioning, subject	Sequence, unambiguous, predict, code	Outcome, project, block, program,	Word processing, software, shift, new line, enter, format, font, size, style, colour, bold, italics, underline, undo, redo, arrow keys	Information Technology, devices, network	Common attribute, data, chart, graph, pictogram, tally chart, compare



	Autumn	Autumn	Spring	Spring	Summer	Summer
Y3	How do I use a map?	How do natural disasters affect the world?	Stone Age to Iron Britain change?	Age: How did	Why is Greece popular?	What did the Ancient Greeks do for us?
Units	Teach Comp Branching databases	Word processing	Teach comp Stop-frame animation	Teach computing Connecting computers	Teach Computing Programming A – Sequencing Sounds	Teach Computing Programming B – Events and actions in programs
Software	J2data Branch and Pictogr <mark>am</mark>	J2Office Writer	iMotion	Paint	Scratch	Scratch
Final project	Geography/Maths Create a branching database to sort between OS map symbols	Geography create a word processed document about natural disasters	History Stop motion animation of improvements between Stone Age – Iron Age	· /	Music Create a concert containing at least 3 musical instruments	
Evidence	Pupils save their work on J2 Data Branch and Pictogram Copy 4 pupils' work into BGFL 'staffroom' folder	Copy 4 pupils' work into BGFL 'staffroom' folder	Using iPad, record pupils' work (4 pupils SEN/BARE/ARE/ARE +). Save into BGFL 'staffroom' folder	Evidenced through pupil voice/monitoring Please keep any worksheets in computing folder	Using iPad, record pupils' work (4 pupils SEN/BARE/ARE+). Save into BGFL 'staffroom' folder	

Assessment	Complete summative assessment (with planning documents) – pass on 4 focus chn's assessments to subject lead	Assessment against 'skill progression' statements - pupil voice/monitoring	Complete rubric for focus chn at end of unit – pass onto subject lead	Complete summative assessment (with planning documents) – pass on 4 focus chn's assessments to subject lead	Complete rubric for focus chn at end of unit – pass onto subject lead	Complete summative assessment (with planning documents) – pass on 4 focus chn's assessments to subject lead
Online Safety Scheme: National Online Safety	Self Image and Identity I can explain what is meant by the term 'identity'. I can explain how people can represent themselves in different ways online. I can explain ways in which someone might change their identity depending on what they are doing online (e.g. gaming, using an avatar, social media) and why. Online Relationships I can describe ways people who have similar likes and interests can get together online. I can explain what it means to 'know someone' online and why this might be different from knowing someone offline.		Online Bullying I can describe appropriate ways to behave towards other people online and why this is important. I can give examples of how bullying behaviour could appear online and how someone can get support. Managing Online Information I can demonstrate how to use key phrases in search engines to gather accurate information online. I can explain what autocomplete is and		and keeping passwo	e strategies for creating ords private.
					I can give reasons why someone should only share information with people they choose and can trust. I can explain that if they are not sure or feel pressured, they should tell a trusted adult. I can describe how connected devices can collect and share anyone's information with others. Copyright and Ownership	
			I can explain what is meant by 'trusting someone online', why this is different from 'liking someone online', and why it is important to be careful about who to trust online, including what information and content they are trusted with.		I can explain the difference between a belief, an opinion and a fact and can give examples of how and where they might be shared online (e.g. in videos, memes, posts, news stories).	

	hurt by what is said of I can explain the important gaining permission be online and how the ponline are the same a sharing images and via Online Reputation	ting anyone with I nervous, rried. neone's feelings can be or written online. ortance of giving and efore sharing things rinciples of sharing as sharing offline (e.g. ideos).	I can describe and d can get help from a content that makes uncomfortable work Health, Wellbeing at I can explain why spusing technology can negative impact on sleep, body, relation	emonstrate how we trusted adult if we see us feel sad, ried or frightened. nd Lifestyle rending too much time in sometimes have a anyone (e.g. mood, inships). I can give some		
	I can explain how to search for information about others online. I can give examples of what anyone may or may not be willing to share about themselves online. I can explain the need to be careful before sharing anything personal. I can explain who someone can ask if they are unsure about putting something online. Autumn term x 3 units		I can explain why so have age restriction follow them and known	easy to spend a lot of doing homework, s). ome online activities s, why it is important to ow who I can talk to if		
			others pressure me something online th uncomfortable (e.g. or web sites). Spring term x3 units		Summer term x 2 units	
Skill progression	I can create questions to sort objects based around yes/no answers	I have completed 'Intermediate' Lessons 1-6 on typing.com.	I can explain how an animation/flip book works, can draw a sequence of pictures	I can explain that digital devices accept inputs and produce outputs	I can recognise that commands in Scratch are represented as blocks.	I can explain the relationship betweer an event and an action.

		and create an	and can classify these		
I can select an	I can make use of the	effective animation	inputs/outputs	I can identify that	I can program
attribute to separate	spellchecker.			each sprite is	movement.
objects into groups		I can explain why	I can describe and	controlled by the	
	I can save my work	little changes are	follow a simple process	commands I choose.	I can match a piece o
I can select objects to	and assign an	needed for each			code to an outcome.
arrange into a	appropriate name to	frame	I can explain how I use	I can create a	Lean avaluate my
branching database	it.	Language distribution	digital devices for	sequence of	I can evaluate my project.
based upon answers	I can align text	I can predict what an	different activities	connected	project.
to yes/no questions	(left/right/centred/jus	animation will look	I can recognise	commands.	
I can check that my	tified).	like and can explain	similarities and	I can build a	
branching database	tilled).	why small changes are needed between	differences between	sequence of	
works	I can use bullet points	frames	using digital devices	commands.	
Works	and numbered lists.	itallies	and non-digital tools	Communasi	
I can compare the		I can describe an	and non algreat tools		
structure of two	I can use the shift key	animation that is	I can explain how		
branching databases	to insert ?! &	achievable on screen	messages are passed		
and comment upon			through multiple		
their effectiveness	I can use the 'insert'	I can use onion	connections and can		
	function to add	skinning to help me	recognise different	107	
I can use a branching	images, shapes and	make small changes	connections	400	
database to answer	text boxes.	between frames			
questions			I can demonstrate how		
	I can screenshot an	I can evaluate my	information can be		
I can explain what a	image and crop to size.	own and another	passed between		
pictogram/branching		learner's animation	devices		
database tells me		and identify ways in			
and compare their		which it can be	I can explain the role of		
ways of presenting	700	improved	a switch, server, and		
information	7		wireless access point in		
		I can add other	a network		
		media to my	I can recognise that a		
		animation	computer network is		
			made up of a number		

				of devices and can identify how they are connected together		
Vocabulary	Branching database, pictogram, attribute, tree structure	Spellchecker, folder, subfolder, layout, align, justified, bullet points, numbered lists, inset, image, shape, text box, screenshot, snipping tool, crop, resize	Stop motion, onion- skimming, animation, frame	Process, digital device, non-digital tool, computer network, switch, server, wireless access point	Programming environment, objects, backdrops, attribute, motion, event block, sound, costume	Event, navigate, bug, evaluate





Curriculu	m Overview
Subject:	Computing

	Autumn	Autumn	Spring	Spring	Summer	Summer
Y4	Home or abroad?	1. 5		<u>-</u>	What is a biome? Why are rainforests and oceans important our lives?	
Units	Word processing	Teach Computing Programming A – Repetition in Shapes	Teach computing Data logging	Teach computing The Internet	Teach computing photo editing	Teach Computing Programming B – Repetition in Games
Software	Microsoft Word Online (available on BGFL365)	Logo turtleacademy.com/pl ayground	Data loggers Easy sense iPads with Data logging app	Chrome Music Lab (chromeexperiments.co m)	Befunky.com Paint.NET	Scratch
Final project	Geography Create a word processed document about places to visit		Science Using a data logger to sense temperature		Geography Edit biome images found online	
Evidence	Pupils to screenshot work and copy onto a J2e5 document Copy 4 pupils' work into BGFL 'staffroom' folder	Pupils to screenshot work and save as J2e5 document Copy 4 pupils' work into BGFL 'staffroom' folder	Evidenced through pupil voice/monitoring Please keep any worksheets in computing folder	Evidenced through pupil voice/monitoring Please keep any worksheets in computing folder		
Assessment	Assessment against 'skill progression' statements – pupil voice/monitoring	Complete summative assessment (with planning documents) – pass on 4 focus chn's	Complete rubric for focus chn at end of unit – pass onto subject lead	Complete summative assessment (with planning documents) – pass on 4 focus chn's	Complete rubric for focus chn at end of unit – pass onto subject lead	Complete rubric for focus chn at end of unit – pass onto subject lead

		assessments to subject lead	assessments to subject lead	
Online Safety Scheme: National Online Safety	Self Image and Identity I can explain how my online identity can be different from my offline identity. I can describe positive ways for someone to interact with others online and understand how this will positively impact on how others perceive them. I can explain that others online can pretend to be someone else, including my friends, and I can suggest reasons why they might do this.		Online Bullying I can recognise when someone is upset, hurt or angry online. I can describe ways people can be bullied through a range of media (e.g. image, video, text, chat). I can explain why people need to think carefully about how content they post might affect others, their feelings and how it may affect how others feel about them (their reputation).	Privacy and Security I can describe strategies for keeping personal information private, depending on context. I can explain that internet use is never fully private and is monitored. I can describe how some online services may seek consent to store information about me. I know how to respond appropriately and who I can ask if I am not sure.
	experiences in a ran environments (e.g. I platforms). I can give examples to others online and recognise healthy as behaviours. I can explain how co	gies for safe and fun ge of online social ivestreaming, gaming of how to be respectful describe how to nd unhealthy online ontent shared online nt to one person but to other people's	Managing Online Information I can analyse information to make a judgement about probable accuracy, and I understand why it is important to make my own decisions regarding content and that my decisions are respected by others. I can describe how to search for information within a wide group of technologies and make a judgement about the probable accuracy (e.g. social media, image sites, video sites). I can describe some of the methods used to encourage people to buy things online (e.g. advertising offers, in-app purchases, pop-	I know what the digital age of consent is and the impact this has on online services asking for consent. Copyright and Ownership When searching on the internet for content to use, I can explain why I need to consider who owns it and whether I have the right to reuse it. I can give some simple examples of content which I must not use without permission from the owner (e.g. videos, music, images).

	Health, Wellbeing and Lifestyle	
- N		8
	isn't.	
	isn't.	- 6
100	online to pretend something is true when it	
	stories or alter photographs and put them	
	for example, why some people will create	
	I can explain what is meant by fake news;	
	Lean avaleia vahet is massat ha felia navas	
		1.00
	the risks might be.	
	the risks might be.	
	bots) and describe what the benefits and	
otners.		
others.	act like, or impersonate, living things (e.g.	
have been created, copied or shared by	explain that technology can be designed to	
	make those opinions or beliefs true. I can	
information about anyone online could		
I can explain ways that some of the	same opinions or beliefs online do not	
	I can explain why lots of people sharing the	
and a control of contr	Lean avalain why late of neonle showing the	
about others by searching online.		
I can describe how to find out information	they appear online.	
Online Reputation I can describe how to find out information	ups) and can recognise some of these when	

kill progression	I have completed	I can explain the effect	I can explain that	I can describe how	I can identify changes	I can identify
	'Intermediate'	of changing a value of a	data gathered over	networks physically	that need to be made	conditions in a
	Lessons 7-12 on	command.	time can be used to	connect to other	to an image and can	program.
	typing.com.		answer questions	networks	explain the effect of	
					editing and image	
			I can use a digital	I can recognise how		
		I can test my algorithm	device to collect	networked devices	I can describe how	I can create a program
	I can use the	in a text-based	data automatically	make up the internet	images can be	with different
	thesaurus tool to	language.			changed for different	outcomes using
	improve my		I can explain that a	I can outline how	uses	selection.
	vocabulary.		data logger collects	websites can be shared		
		L	'data points' from	via the World Wide	I can make good	
	I can use the 'word	I can predict the	sensors over time	Web (WWW)	choices when	1 : d
	count' tool.	outcome of a program			selecting editing tools	I can identify the
		containing a count-	I can recognise how	I can describe how		outcome of user input
		controlled loop.	a computer can help	content can be added	I can recognise that	in an algorithm.
			us analyse data	and accessed on the	not all images are real	
	I can change the			www		
	orientation, size and	I can use a procedure in	I can identify the		I can evaluate how	
	margins.	a program.	data needed to	I recognise that the	changes can improve	
		a program.	answer questions	content of the WWW is	an image	
	I can insert		I can use data from	created by people		
	hyperlinks.	The second		I can evaluate the		
		The contract of	sensors to answer			
	I can use 'text-	70.	questions	consequences of		
	wrapping' when	70.		unreliable content		
	inserting an image.	1	10			
	I can use the 'insert'	700	700			
	function to add a					
	table.			40		
	I can adjust the size					
	and number of rows					

	and columns in a table.					
Vocabulary	Thesaurus tool, review, word count, orientation, size, margin, hyperlink, text-wrapping, table, row, column	Selection, ifthen, condition, output device, input device, LED, circuit, microcontroller, motor, 'do until' loop	Data logger, data set, sensors, intervals, interpret, conclusions	Network, network of networks, networked devices, World Wide Web (WWW), content, ambiguous	Digital image, editing, composition, retouching	'ifthenelse', binary, branching structure



Curriculum Overview

			Subject: Computin	g		
	Autumn	Autumn	Spring	Spring	Summer	Summer
Y5	What is a river's journey?		Who were Britain's famous monarchs?	Why does the USA have different climate zones?		chievements of the Egyptians?
Units	Teach computing - Video production	Teach computing - Computing systems and networks sharing information	Word processing	Teach computing flat- file data bases	Teach Computing Programming B – Selection in Quizzes	Micro:bit https://microbit.org/l essons/data-handling- unit-summary/
Software	iPad 'photos' app	Various search engines – referenced in planning docs	Word online	J2 data databases	Scratch	Microbit, MakeCode editor
Final project	Geography Create a video about mountains/rivers		History Create a word processed document about famous kings and queens	Maths/geography/ PSHE create a database about holiday details	History Design a quiz about the Ancient Egyptians	DT Design a gadget that can that either responds to changes in light level or temperature
Evidence	Pupils to copy their videos into a J2e5 document and save. Copy files for 4 focus chn into BGFL 'staffroom' folder Please keep any worksheets in computing folder	Please keep any worksheets in computing folder Evidenced through pupil voice/monitoring	Pupils to screenshot work and copy onto a J2e5 document Copy 4 pupils' work into BGFL 'staffroom' folder	Pupils to save their databases. Teacher copy files for 4 focus chn into BGFL 'staffroom' folder Please keep any worksheets in computing folder	Please keep any worksheets in computing folder	Please keep any worksheets in computing folder Pupils to screenshot work and copy onto a J2e5 document Copy 4 pupils' work into BGFL 'staffroom' folder

						Where applicable, video micro:bits performing the tasks that they have been programmed with – also copy into 'staffroom' folder – be sure to provide pupils names with the micro:bits
Assessment	Complete rubric for focus chn at end of unit – pass onto subject lead	Complete summative assessment (with planning documents) – pass on 4 focus chn's assessments to subject lead	Assessment against 'skill progression' statements – pupil voice/monitoring	Complete summative assessment (with planning documents) – pass on 4 focus chn's assessments to subject lead	Complete summative assessment (with planning documents) – pass on 4 focus chn's assessments to subject lead	Assessment against 'skill progression' statements – pupil voice/monitoring
Online Safety Scheme: National Online Safety	Self Image and Identity I can explain how identity online can be copied, modified or altered. I can demonstrate how to make responsible choices about having an online identity, depending on context. Online Relationships I can give examples of technology-specific forms of communication (e.g. emojis, memes and GIFs). I can explain that there are some people I communicate with online who may want to do me or my friends harm. I can recognise		Online Bullying I can recognise that online bullying can be different from bullying in the physical world and can describe some of those differences. I can describe how what one person perceives as playful joking and teasing (including 'banter') might be experienced by others as bullying. I can explain how anyone can get help if they are being bullied online and identify when to tell a trusted adult.		Privacy and Security I can explain what a strong password is and demonstrate how to create one. I can explain how many free apps or services may read and share private information (e.g. friends, contacts, likes, images, videos, voice, messages, geolocation) with others. I can explain what app permissions are and can give some examples. Copyright and Ownership I can assess and justify when it is	

I can describe some of the ways people may be involved in online communities and how they might collaborate constructively with others and make positive contributions. (e.g. gaming communities and social media groups).

I can explain how someone can get help if they are having problems and identify when to tell a trusted adult.

I can demonstrate how to support others (including those who are having difficulties) online.

Online Reputation

I can search for information about an individual online and summarise the information found.

I can describe ways that information about anyone online can be used by others to make judgments about an individual and why these may be incorrect I can identify a range of ways to report concerns and access support in school and at home about online bullying.

I can explain how to block abusive users.

I can describe helpline services which can help people experiencing bullying and how to access them (e.g. Childline or The Mix).

Managing Online Information

I can explain the benefits and limitations of using different types of search technologies such as voice-activation search engines. I can explain how some technology can limit the information I am presented with, for example voice-activated searching giving one result.

I can explain what is meant by 'being sceptical'; I can give examples of when and why it is important to be sceptical.

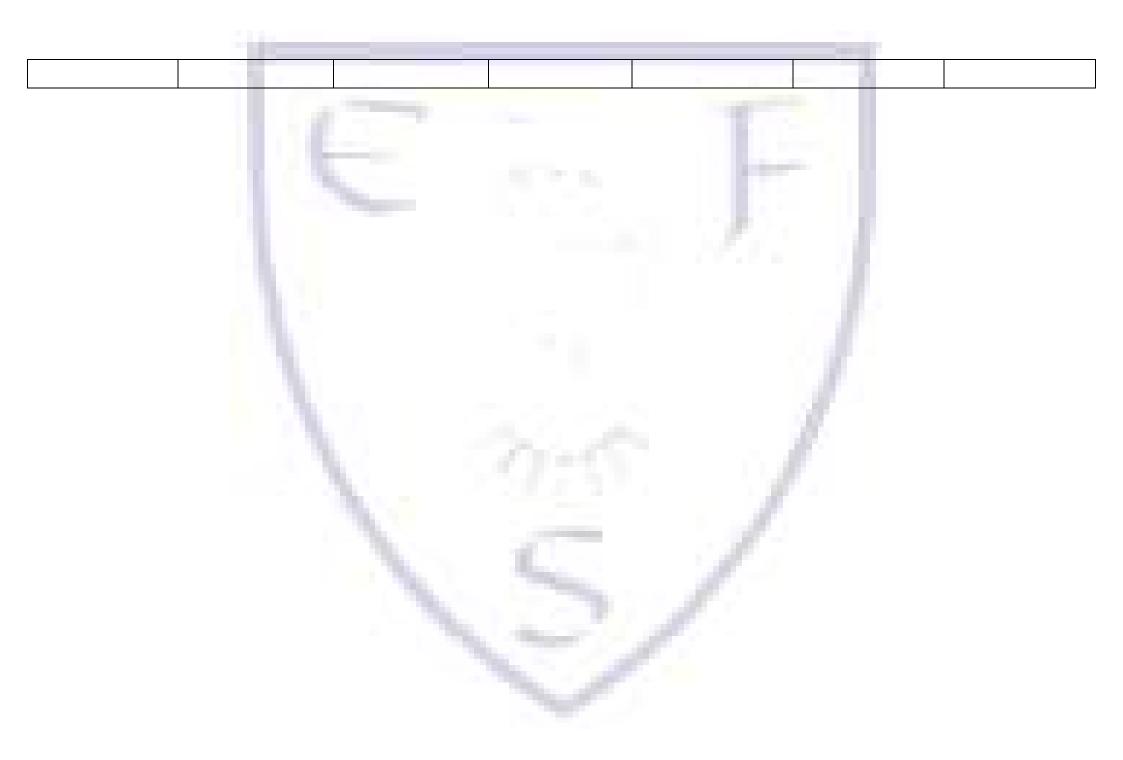
I can evaluate digital content and can explain how to make choices about what is trustworthy, for example differentiating between adverts and search results.

I can explain key concepts, including information, reviews, fact, opinion, belief, validity, reliability and evidence.

I can give examples of content that is permitted to be reused and know how this content can be found online. I can identify ways the internet can draw us to information for different agendas (e.g. website notifications, pop-ups, targeted ads). I can describe ways of identifying when online content has been commercially sponsored or boosted (e.g. by commercial companies or by vloggers, content creators, influencers). I can explain what is meant by the term 'stereotype', how stereotypes are amplified and reinforced online and why accepting stereotypes may influence how people think about others. I can describe how fake news may affect someone's emotions and behaviour and explain why this may be harmful. I can explain what is meant by a hoax. I can explain why someone would need to think carefully before they share. Health, Wellbeing and Lifestyle I can describe ways technology can affect health and well-being positively (e.g. mindfulness apps) and negatively.

			I can describe some strategies, tips or advice regarding technology to promote health and wellbeing. I recognise the benefits and risks of accessing information about health and well-being online and how we should balance this with talking to trusted adults and professionals. I can explain how and why some apps and games may request or take payment for additional content (e.g. in-app purchases, loot boxes) and explain the importance of seeking permission from a trusted adult before purchasing.			
	Autumn term x 3 units		Spring term x3 units		Summer term x 2 units	
Skill progression	I can explain what makes a video effective I can use a digital device to record video I can capture video using a range of techniques I can create a storyboard	I can explain that computers can be connected together to form systems I can recognise the role of computer systems in our lives I can recognise how information is transferred over the internet	I have completed 'Advanced' Lessons 1-4 on typing.com. I can choose an appropriate layout, font, size and colour to meet a specific audience/purpose. I can use keyboard shortcuts, e.g. add a hyperlink (Ctrl + k),	I can use a form to record information I can compare paper and computer-based databases I can outline how grouping and then sorting data allows us to answer questions	I can identify conditions in a program. I can create a program with different outcomes using selection. I can identify the outcome of user input in an algorithm.	I know that mechanical and electrical systems have an input, process and output I know how more complex electrical circuits and components can be used to create functional products I know how to program a computer

Vocabulary	Media format, video production/editing, editing software, editing techniques	Systems, IP address, protocol, collaborative, public, private	Numeric keypad, shortcut, control (ctrl), special symbol, header, footer, page number, share, comment	Record card database, records, fields, grouping, sorting	Storyboard, binary question	Microbit, program, input, output, algorithm, sequence, variable, connection, positive, negative
		1				I can write a program to use a micro:bit as a digital assistant
			3-5		/	I can write a problem using that uses data as a condition
						I can use a micro:bit to collect data
		online	I can add comments to my own work	answer real-world questions		I can write a simple program using sensors
		I can evaluate different ways of working together	page numbers to my work.	data visually I can apply my knowledge of a database to ask and	and identify ways in which it can be improved.	classify it and how it might be used.
	impact of the choices made when making and sharing video	I can contribute to a shared project online	I can add headers/footers and	computer programs can be used to compare	I can test my program, share it with others	Computing only I understand what data is, how to
	I can consider the	different places work together	I can insert special symbols, e.g. ÷ ° ⅓ etc.	specific data I can explain that	of two ways.	·
	I can improve my video through reshooting and editing	I can explain how sharing information online lets people in	select all (Ctrl + a) etc.	I can explain that tools can be used to select	I can show that a condition can direct program flow in one	to monitor changes in the environment and control their products





Curriculu	m Overview
Subject:	Computing

			Subject: Computing			T
	Autumn	Autumn	Spring	Spring	Summer	Summer
Y6	-		What was the impact of WWII on the West Midlands?		Why was the Industrial Revolution important to the West Midlands?	
Units	Teach Computing Introduction to spreadsheets	Teach Computing Programming A – Variables in Games	Word processing	Teach Computing Creating Media – 3D modelling	Teach Computing Computing systems and networks - Communication and collaboration	Teach Computing Programming B – Sensing Movement (Lessons 1-4) Then for project, children can choose between: Simple door alarm micro:bit (microbit.org) Simple tilt alarm micro:bit (microbit.org) Pressure switch alarm micro:bit (microbit.org)
Software	Microsoft Excel Online	Scratch	Word Online/PowerPoint Online/J2e5/J2Office Writer (pupil's choice) Typing.com	Tinkercad	-Google Workspace/Microsof t PPT required for lesson 3 (for collaboration)	Micro:bit Make Code

					Scratch required for lesson 4 – pupils all need their own accounts	
Final project		Geography Design a game in the context of Mexico	History create a word processed document about WWII	DT Design a shelter for KS1 playground		DT Design an intruder alarm
Evidence	Please keep any worksheets in computing folder Pupils to screenshot their work and save as a J2e5 document. Teacher to copy work for 4 focus chn into BGFL 'staffroom' folder	Please keep any worksheets in computing folder	Pupils to screenshot work and copy onto a J2e5 document Copy 4 pupils' work into BGFL 'staffroom' folder	Pupil's will need their own accounts – accessible through a teacher account (which needs creating first). Pupil's work saves automatically Pupils to screenshot work and copy onto a J2e5 document Copy 4 pupils' work into BGFL 'staffroom' folder	Please keep any worksheets in computing folder	Pupils to screenshot work and copy onto a J2e5 document Copy 4 pupils' work into BGFL 'staffroom' folder Where applicable, video micro:bits performing the tasks that they have been programmed with – also copy into 'staffroom' folder – be sure to provide pupils names with the micro:bits!
Assessment	Complete summative assessment (with planning documents) – pass on 4 focus chn's assessments to subject lead	Complete summative assessment (with planning documents) – pass on 4 focus chn's assessments to subject lead	Assessment against 'skill progression' statements – pupil voice/monitoring	Complete rubric for focus chn at end of unit – pass onto subject lead	Complete summative assessment (with planning documents) – pass on 4 focus chn's assessments to subject lead	Assessment against 'skill progression' statements – pupil voice/monitoring
Online Safety	Self Image and Identity I can identify and critically evaluate online content relating to gender, race, religion,		Online Bullying I can describe how to capture bullying content as evidence (e.g. screen-grab, URL,		Privacy and Security I can describe effective ways people can manage passwords, for example storing	

Scheme: National
Online Safety

disability, culture and other groups and explain why it is important to challenge and reject inappropriate representations online.

I can describe issues online that could make anyone feel sad, worried, uncomfortable or frightened. I know and can give examples of how to get help online and offline.

I can explain the importance of asking until I get the help needed.

Online Relationships

I can explain how sharing something online may have an impact either positively or negatively.

I can describe how to be kind and show respect for others online including the importance of respecting boundaries regarding what is shared about them online and how to support them if others do not.

I can describe how things shared privately online can have unintended consequences for others, for example screen-grabs.

I can explain that taking or sharing inappropriate images of someone, for example embarrassing images, even if they say it is okay, may have an impact for the

profile) to share with others who can help me.

I can explain how someone could report online bullying in different contexts.

Managing Online Information

I can explain how search engines work and how results are selected and ranked.

I can explain how to use search technologies effectively.

I can describe how some online information can be opinion and can offer examples.

I can explain how and why some people may present opinions as facts, and why the popularity of an opinion or the personalities of those promoting it does not necessarily make it true, fair or perhaps even legal.

I can define the terms 'influence', 'manipulation' and 'persuasion' and explain how someone might encounter these online, for example advertising, ad targeting and targeting for fake news. them securely or saving them in the browser.

I can explain what to do if a password is shared, lost or stolen.

I can describe how and why people should keep their software and apps up to date, for example auto updates.

I can describe simple ways to increase privacy on apps and services that provide privacy settings.

I can describe ways in which some online content targets people to gain money or information illegally; I can describe strategies to help me identify such content (e.g. scams, phishing).

I know that online services have terms and conditions that govern their use.

Copyright and Ownership

I can demonstrate the use of search tools to find and access online content which can be reused by others.

I can demonstrate how to make references to, and acknowledge, sources I have used from the internet. sharer and others. I can also explain who can help if someone is worried about this.

Online Reputation

I can explain the ways in which anyone can develop a positive online reputation.

I can explain strategies anyone can use to protect their digital personality and online reputation, including degrees of anonymity. I understand the concept of persuasive design and how it can be used to influences peoples' choices.

I can demonstrate how to analyse and evaluate the validity of facts and information, and I can explain why using these strategies is important.

I can explain how companies and news providers target people with online news stories they are more likely to engage with and how to recognise this.

I can describe the difference between online misinformation and disinformation.

I can explain why information that is on a large number of sites may still be inaccurate or untrue. I can assess how this might happen, for example the sharing of misinformation or disinformation.

I can identify, flag and report inappropriate content.

Health, Wellbeing and Lifestyle
I can describe common systems that
regulate age-related content (e.g. PEGI,
BBFC, parental warnings) and describe
their purpose.

			I can recognise featur design and how they users engaged (currently)	res of persuasive are used to keep nt and future use). In different strategies technology on health e, regular breaks,		
	Autumn term x 3 units		Spring term x3 units		Summer term x 2 units + 1 'BBFC: Let's watch a	•
Skill progression	I can create a data set in a spreadsheet I can build a data set in a spreadsheet I can explain that formulas can be used to produce calculated data I can apply formulas to data	I can identify examples of information that is variable. I can make use of an event in a program to set a variable. I can recognise that the value of a variable can be used by a program.	I have completed 'Advanced' Lessons 5- 7 on typing.com. Year 6 Project: I can produce a professional piece of writing for a specified topic, using an appropriate layout and formality. I can choose appropriate word processing software to complete a specific task and explain my	I can select, move and delete a digital 3D shape. I can change the colour and resize a 3D object. I can rotate 3D objects, position them in relation to each other and select and delete multiple objects. I can group a digital 3D shape and a	I can identify how to use a search engine I can describe how search engines select results I can explain how search results are ranked I can recognise why the order of results is important, and to whom	I can use variables to control an output. I can identify and correct bugs in a program. I can refine a program to improve its efficiency. From DT I know that mechanical and electrical systems have an input, process and output.

	I can create a spreadsheet to plan an event	_	reasons for choosing it. I can make use of the	placeholder to create a hole in an object.	I can recognise how we communicate using technology	I know how more complex electrical circuits and components can be
	I can choose suitable ways to present data		templates, e.g. letter, flyer, brochure to improve the layout of my work.	shapes to create a model of a real-world object.	I can evaluate different methods of online communication	used to create functional products I know how to
			I can change the layout of text by adding and removing columns. I can insert footnotes and endnotes to begin	I can plan and construct a 3D model, decide how it can be improved and modify my model to improve it.		program a computer to monitor changes in the environment and control their products
Vocabulary	Spreadsheet, cell reference, data item, formatting cells, formulas	Variables, simulation, 'use-modify-create' model, letters (strings), event	to reference my work. Formality, template, footnote, endnote, reference, bibliography	CAD (Computer Aided Design), workplane, orthographic, floorplan, prototype, scaling	Search engine, refine, address bar, web crawlers, index, rank, influence, communication, privacy, information	Analogue, digital, selection, LEDs, sensor, trigger, audio, visual, device