





	Autum	n Term	Spring	g Term	Summe	r Term
	1	2	1	2	1	2
Pre-School	Settling in		Using a computer	Using a computer	Bee Bots	Data
No KAPOW	Setting in		Locate keyboard	Locate keyboard	Children play with the Beebots and	Simple pictograms on children's
units for Pre-school.	Green Screen throughout the year to		Use mouse	Use mouse	begin to explore programming using	favourite foods etc
Summer 2	enhance learning		2Simple to mark make	2Simple to mark make	the different BeeBot mats in play	Online Safety
children will begin to			Online Safety			
explore pre learning for						
the Reception						
units						
Reception	Settling in	Using a Computer	All About Instructions	Programming Bee-Bots	Exploring Hardware	Introduction to data
		Learn what a keyboard	Follow instructions as part	Understand the meaning of	Explore and tinker	
		is and how to locate	of practical activities and	directional arrow and follow	with hardware to	Understand how to
		relevant keys.	games and learn to debug	a simple sequence of	develop familiarity	sort and categorise
		Learn how to log in and	when things go wrong.	instructions.	and introduce	objects.
		log out.	Learn to give simple	Experiment with	relevant vocabulary.	Explain how items
		Understand why we	instructions.	programming a Bee-bot.	Recognise that a	have been sorted
		need to log in and out.	Learn that an algorithm is a	Explore and tinker with	range of technology	and categorised.
		Develop basic mouse	set of instructions to carry	hardware to develop	is used in places	Explore and
		skills such as moving	out a task, in a specific	familiarity and introduce	such as homes and	understand the
		and clicking.	order.	relevant vocabulary	schools.	concept of branch
		Use a simple online	Explore and tinker with	Learn how to give simple	Operate a camera	databases.
		paint tool to create	hardware to develop	commands.	and/or iPad and use	Understand how to
		digital art.	familiarity and introduce	Learn to debug instructions,	it to take	represent data in a
			relevant vocabulary.	with the help of an adult,	photographs.	pictogram.
				when things go wrong.	Characteristics of	Understand how to
			Characteristics of Effective	Learn that an algorithm is a	Effective Learning	read a simple
		Characteristics of	Learning	set of instructions to carry	Playing and	pictogram.
		Effective Learning	Active learning	out a task, in a specific	exploring	
		Playing and exploring	Creating and thinking	order.	Active learning	Characteristics of
		Active learning	critically	Follow an algorithm as part		Effective Learning
				of an unplugged game.		

Personalis ation and Subject Links	Online Safety – discussions and examples based around personal experiences when appropriate.	Creating and thinking critically Personalisation changed year by year linked to children's interests each cohort.	Personalisation changed year by year linked to children's interests each cohort.	Characteristics of Effective Learning Playing and exploring Active learning Creating and thinking critically Personalisation changed year by year linked to children's interests each cohort.	Personalisation changed year by year linked to children's interests each cohort.	Playing and exploring Active learning Creating and thinking critically Personalisation changed year by year linked to children's interests each cohort.
Key	ONGOING EACH TERM.			Bee bot , Journey,		Sort, Categorise,
Vocabular y		Computer, laptop, keyboard, mouse, screen, left click, right click, cursor, log in/out, move, digital art,	Debug, instruction, algorithm, hardware, predict, sequence, order	command, algorithm, instruction, experiment, debug	Camera, iPad, Tablet, Lens Point, Shoot, Capture, Picture Image, Gallery, Record, Photograph, Photographer Still, Blurred, Blurry, Crisp, Clear, Selfie	Category, Group, Describe, pictogram, data, database
Year 1	Getting Started Use technology	Digital Imagery Use logical reasoning to	Introduction to Data Use technology	Programming- Beebots Create and debug simple	Algorithms- unplugged	Rocket to the Moon
	purposefully to create,	predict the behaviour of	purposefully to create,	programs.	Understand what	Use technology
	organise, store,	simple programs.	organise, store, manipulate	Use logical reasoning to	algorithms are; how	purposefully to
	manipulate and retrieve	Use technology	and retrieve digital content.	predict the behaviour of	they are	create, organise,
	digital content.	purposefully to create,	Recognise common uses of	simple programs.	implemented as	store, manipulate
	Recognise common	organise, store,	information technology	Understand what	programs on digital devices and that	and retrieve digital
	uses of information technology beyond	manipulate and retrieve digital content.	beyond school.	algorithms are.	programs execute by	content.
	school.	Recognise common	Online Safety	Online Safety	following precise and	
	Use technology safely	uses of information			unambiguous	
	and respectfully.	technology beyond	Discuss what the internet is	Discuss what the internet is	instructions.	
		school.	and how it can be used.	and how it can be used.	Create and debug	
	Online Safety	Online Cafata	Recognise that the internet	Recognise that the internet	simple programs.	
	(4 Lessons)	Online Safety	may affect mood or emotions.	may affect mood or emotions.	Espresso Coding	
	Discuss what the	Discuss what the	Recognise how internet use	Recognise how internet use		
	internet is and how it	internet is and how it	can affect and upset other.	can affect and upset other.		
	can be used.	can be used.				

	Recognise that the internet may affect mood or emotions. Recognise how internet use can affect and upset other. Identify which information is appropriate to share and post online and which is not.	Recognise that the internet may affect mood or emotions. Recognise how internet use can affect and upset other. Identify which information is appropriate to share and post online and which is not	Identify which information is appropriate to share and post online and which is not	Identify which information is appropriate to share and post online and which is not		
Personalis ation and Subject Links	Children to take photos of how they use technology in the home. Online Safety – discussions and examples based around personal experiences when appropriate. ONGOING EACH TERM.	Using the talking app to make photos from the Fire of London talk. Characters talking about what is happening. English, history	Link to Minibeasts and weather in our local area. Science Maths	Asking children to create story maps linking to their English work and Traditional Tales. English		Science DT Maths History
Key Vocabular y	Art & Design, Maths Purpose Online tools Communication Rules online Private information Photos Technology	Photo story Editing Filter Search engine Text	Data Pictogram Chart Information database	Buttons Instructions Robots Patterns Program Navigate	Algorithm Instructions Input/ output Siri	Keyboard Keys Type Sequence
Year 2	What is a Computer? Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by	Word Processing and online safety Use technology purposefully to create, organise, store,	International Space Station Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Programming: Espresso Coding Understand what algorithms are; how they are implemented as programs on digital devices; and that programs	Algorithms and debugging: Espresso Coding Understand what algorithms are; how they are implemented as	Stop Motion Recognise common uses of technology beyond school. Pupils create simple animations,

following precise and unambiguous instructions

Children explore exactly what a computer is, identifying and learning how inputs and outputs work, how computers are used in the wider world and designing their own computerised invention

Online Safety (5 Lessons)

Explain what is meant

by online information. Recognise what information is safe to be shared online. Explain why we need passwords and what makes a strong password. Understand that they need to ask permission before sharing content online and explain why. Understand that they have the right to deny their permission to information about them being shared online. Say who they can ask for help with online worries. Use some strategies to work out if online

information is reliable or

not.

manipulate and retrieve digital content

Using their developing word processing skills, pupils write simple messages to friends and learn why we must be careful about who we talk to online

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Building on their understanding of how computers sense the world around us, pupils learn how data is collected, used and displayed to keep astronauts safe on board the ISS

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execute by following precise and unambiguous instructions

Create and debug simple programs

Use logical reasoning to predict the behaviour of simple programs

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storyboarding their ideas then decomposing it into small parts of action to be captured using Stop Motion Animation Software

					information is reliable or not.	
Personalis ation and Subject Links	Collaborative learning: collect examples of technology around school. Inventions link to children's interests each cohort. Online Safety — discussions and	Green screen to be used this half-term for Christmas play History: digital art-poppies	DT and History: design a lunar buggy linking to ISS unit Safer Internet Day	PSHE: internet safety	Science: create pictograms for minibeast habitats in our local area.	English: storyboard for the Marvellous Fluffy Squishy Itty Bitty Discuss how technology is used in our local area.
	examples based around personal experiences when appropriate. ONGOING EACH TERM.					
Key Vocabular	Input Output	Touch type Word processing	Data collection Mouse skills	Programming Forward	Programming Forward	Animation Storyboard
у	Uses	Storing information	Keyboard skills	Backward	Backward	Frames
	Laptop	Keyboard shortcuts	Sensor monitors	Right angle turn	Right angle turn	Film
	Mouse	Edit	Algorithm	Sequence	Sequence	Models
	Keyboard	Copy & paste	Data	Debug	Debug	
	Screen	Online Safety		Predict Algorithm	Predict Algorithm	
Year 3	Journey inside a	Emailing	Top Trumps Databases	Programming- Espresso	Espresso Coding.	Networks
Teal 3	computer	Understand computer	Top Trumps Databases	Coding	Design, write and	Understand
	oopass.	networks including the	Select, use and combine a	Design, write and debug	debug programs.	computer networks
	Design, write and debug	internet; how they can	variety of software on a	programs.	01 0	including the
	programs.	provide multiple	range of digital devices to		Use sequence,	internet; how they
	, ,	services, such as the	design and create a range	Use sequence, selection	selection and	can provide
	Use logical reasoning to	world wide web.	of programs, systems and	and repetition in programs;	repetition in	multiple services,
	explain how some		content.	work with variables and	programs; work with	such as the world wide web.
	simple algorithms work	Select, use and combine		various forms of input and	variables and various	wide web.
	and to detect and	a variety of software on a range of digital	Online Safety	output.	forms of input and output.	Digital Literacy
	correct errors.	devices to design and	Add text between the	Use logical reasoning to	output.	Use search
	Online Safety	create a range of	heading and paragraph	explain how some simple	Use logical	technologies
	(4 Lessons)	programs, systems and	tags.	algorithms work and to	reasoning to explain	effectively,
	(+ E0330113)	content.	Easily activate the goggles	detect and correct errors.	how some simple	appreciate how
	Add text between the		to investigate a web page.		algorithms work and	results are selected and ranked, and be
	heading and paragraph	Use technology safely,		Online Safety		discerning in
	tags.	respectfully and				

	Easily activate the	responsibly; recognise	Explain how they altered	Add text between the	to detect and correct	evaluating digital
	goggles to investigate a	acceptable/unacceptabl	the HTML to create their	heading and paragraph	errors.	content
	web page.	e behaviour	own posters.	tags.		
	Explain how they altered		Change the colours and	Easily activate the goggles		
	the HTML to create their	Online Safety	sizes of their object	to investigate a web page.		
	own posters.	Offinite Galety	elements. Explain how they	Explain how they altered		
	Change the colours and	Add text between the	created their story.	the HTML to create their		
	sizes of their object	heading and paragraph	Adapt the basic elements of	own posters.	•	
	elements. Explain how		a story within a web page	Change the colours and		
	they created their story.	tags. Easily activate the	using the 'Inspect	sizes of their object		
	Adapt the basic	goggles to investigate a	Elements' tool.	elements. Explain how they		
	elements of a story	web page.	Change an image within a	created their story.		
	within a web page using	Explain how they altered	web page and create their	Adapt the basic elements of		
	the 'Inspect Elements'	the HTML to create their	own news story, replacing	a story within a web page		
	tool.	own posters.	the text and images of a	using the 'Inspect		
	Change an image within	·	webpage.	Elements' tool.		
	a web page and create	Change the colours and sizes of their object		Change an image within a		
	their own news story,	elements. Explain how		web page and create their		
	replacing the text and			own news story, replacing		
	images of a webpage.	they created their story.		the text and images of a		
	inages of a webpage.	Adapt the basic		webpage.		
		elements of a story		webpage.		
		within a web page using				
		the 'Inspect Elements'				
		tool.				
		Change an image within				
		a web page and create				
		their own news story,				
		replacing the text and				
		images of a webpage.				
Personalis	Journey into a	Email:	Databases:			Digital Literacy:
ation and	Computer:	Christmas messages to	Use names of Celtic tribes.			Plants and flowers
Subject	Meet My Brain	one another.	History			presentation
Links	PSHE	Religious Education	Thistory			Science
LIIKS	Power point used for	Tongious Education				Research Romans
	making posters of	English				using the internet.
	National Parks and	Litgilori				History
	countryside.					Digi maps local
	Digi maps.					area.
	Geography Local area.					Geography.
	Geography Local area.					Geography.

Key Vocabular y	Online Safety – discussions and examples based around personal experiences when appropriate. ONGOING EACH TERM. Instruction Input/output Algorithm Purpose Hard drive Component Collaborative Learning	Email Attachment Features Online responsibility Cyberbullying Spam Junk Phishing Website Design	Sequence Instruction Debugging Test and improve Commands Programming	Databases Records Fields Data Digital database Sort and filter	Storyboard Photos Multimedia Presentation Voiceover Transition styles Investigating	Network Device Wireless Journey Operations
	Selecting using and combining a variety of software to design and create a range of programs, systems and content that accomplish given goals.	Selecting using and combining a variety of software to design and create a range of programs, systems and content that accomplish given goals.	Coding (Espresso Coding) Understand how to create a simple script in Scratch – be able to change sprite and prevent the sprite from rotating.	Add text between the heading and paragraph tags. Easily activate the goggles to investigate a web page. Explain how they altered the HTML to create their	Weather Understanding why some sources are more trustworthy than others. Understanding the	Computational Thinking (Espresso Coding) Understand that problems can be solved more easily
	Understanding opportunities offered by the World Wide Web for communication and collaboration	Understanding opportunities offered by the World Wide Web for communication and collaboration.	Use decomposition to identify key features and understand how to decipher actions that make the quiz game work.	own posters. Change the colours and sizes of their object elements. Explain how they created their story. Adapt the basic elements of a story within a web page	role of inputs and outputs in computerised devices. Online Safety	using computational thinking. Understand what the different code
	Online Safety Describe how to search over multiple platforms and are aware of the accuracy of the results presented. Describe some of the	Online Safety Describe how to search over multiple platforms and are aware of the accuracy of the results presented. Describe some of the	Understand what a variable is and how to use the 'say' and 'ask' blocks. Create a variable and be able to use a variable to record a score. Understand what a variable is and how it works within a program.	using the 'Inspect Elements' tool. Change an image within a web page and create their own news story, replacing the text and images of a webpage. Online Safety Describe how to search over multiple platforms and	Describe how to search over multiple platforms and are aware of the accuracy of the results presented. Describe some of the methods used to persuade people to buy online.	blocks do and create a simple game. Understand the terms 'pattern recognition' and 'abstraction' and how they help to solve a problem. Create a Scratch program which draws a square and

	methods used to	methods used to	Online Safety	are aware of the accuracy	Explain the	at least one other
	persuade people to buy	persuade people to buy	Offiline Safety	of the results presented.	difference between	shape.
	online.	online.	Describe how to search	or the results presented.	fact, opinion and	опаро.
	GG.	0	over multiple platforms and	Describe some of the	belief and recognise	Understand how
	Explain the difference	Explain the difference	are aware of the accuracy	Describe some of the	these online.	computational
	between fact, opinion	between fact, opinion	of the results presented.			thinking can help to
	and belief and recognise	and belief and recognise	or the results presented.	methods used to persuade	Explain what a bot is	solve problems and
	these online.	these online.	December 2016	people to buy online.	and give examples of	apply
	triese orilirie.	triese orinire.	Describe some of the		different bots.	computational
	Francis releate betie	Fundain what a batic		Explain the difference	different bots.	thinking to
	Explain what a bot is	Explain what a bot is	methods used to persuade	between fact, opinion and	Evaloia como	problems they face.
	and give examples of	and give examples of	people to buy online.	belief and recognise these	Explain some	probleme they face.
	different bots.	different bots.		online.	positive and negative	Online Sefety
			Explain the difference		distractions of using	Online Safety
	Explain some positive	Explain some positive	between fact, opinion and	Explain what a bot is and	technology and small	
	and negative	and negative	belief and recognise these	give examples of different	strategies on how to reduce the amount of	Describe how to
	distractions of using	distractions of using	online.	bots.	time spent on	search over
	technology and small	technology and small			technology.	multiple platforms
	strategies on how to	strategies on how to	Explain what a bot is and	Explain some positive and	technology.	and are aware of
	reduce the amount of	reduce the amount of	give examples of different	negative distractions of		the accuracy of the
	time spent on	time spent on	bots.	using technology and small		results presented.
	technology.	technology.		strategies on how to reduce		
			Explain some positive and	the amount of time spent		Describe some of
			negative distractions of	on technology.		the
			using technology and small			
			strategies on how to reduce			methods used to
			the amount of time spent			persuade people to
			on technology.			buy online.
			0,			
						Explain the
						difference between
						fact, opinion and
						belief and
						recognise these
						online.
						Explain what a bot
						is and give
						examples of
						different bots.
						Explain some
						positive and
						negative
Ll					1	3

						distractions of using technology and small strategies on how to reduce the amount of time spent on technology.
Personalis ation and Subject Links	Collaborative learning: Creating forms based on electricity. Presenting findings on excel. Science Online Safety – links to searching for products the children want to buy online.	Website Design: Create a sway linking to London Plague and/or local rivers. History & Geography. Online Safety – links to searching for products the children want to buy	Online Safety– Fact, opinion or belief. Children link to their own experiences of this online.	HTML: Hacking websites of interest to children.	Weather: Weather in our local area. Science and Geography.	Online Safety – Techtimetable. What does YOUR timetable look like at home?
		online.			_	
Key	Coogle Deep	Google sites	Websites	HTML	Data	Abstraction
Vocabular	Google Docs Presentation	Features Review	Data transfer Network	Code Content	Spreadsheet Design	Algorithm design Decomposition
У	Create	Showcase	Connected	Layout	Gather	Pattern recognition
	Google forms	Webpage	Routers	Fake news	Search engine	1 attern recognition
	Data	Site link	Encoded	Text	Green screen	
	Spreadsheet	One min	Enocada	image	Croon coroon	
Year 5	Creating media: Stop motion animation	Sonic Pi Music	Micro:bit	Search Engines	Mars Rover 1	Mars Rover 2
	Using keywords and phrases, identifying inaccurate information, learning page rank works as well. These lessons are available for both Microsoft and Google schools.	Design, write and debug programs. Use sequence, selection and repetition in programs; work with variables and various forms of input and output.	Design, write and debug programs. Use sequence, selection and repetition in programs; work with variables and various forms of input and output.	Understand computer networks including the internet; how they can provide multiple services, such as the world wide web. Use technology safely, respectfully and responsibly; recognise	Select, use and combine a variety of software on a range of digital devices to design and create a range of programs, systems and content. Understand	Select, use and combine a variety of software on a range of digital devices to design and create a range of programs, systems and content.
	Online Safety Understand that passwords need to be	Use logical reasoning to explain how some simple algorithms work	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors.	acceptable/unacceptable behaviour	computer networks including the internet; how they can provide multiple services,	Understand computer networks including the internet; how they

strong and that apps require some form of passwords.

Recognise a couple of the different types of online communication and know who to go to if they need help with any communication matters online.

Search for simple information about a person, such as their birthday or key life moments.

Know what bullying is and that it can occur both online and in the real world.

Recognise when health and wellbeing are being affected in either a positive or negative way through online use.

Offer a couple of advice tips to combat the negative effects of online use.

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Online Safety

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Online Safety – discussions and examples based around personal experiences when appropriate. ONGOING EACH TERM. Online Safety: Research famous nationalists. Science and Geography Online safety	Reading Music Sonic Pi	BBC micro: bit	Research	GREEN SCREEN to be used this half term	Pixel
Danger Stop motion Animation Storyboards Editing	Debugging Programming Loops Adapting	Programming Algorithm Polling programme Animation Debugging	Accurate information Fake information Relevant Canva Web index Page rank Web crawlers	Data transfer Binary code Random access memory Robot Programming	Digital image RAM ROM 3D design
Understand computer networks including the internet; how they can provide multiple services, such as the world wide web. Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software on	Understand computer networks including the internet; how they can provide multiple services, such as the world wide web. Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software on	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour Select, use and combine a variety of software on a range of digital devices to design and create a range of programs, systems and content. Understand computer	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour Select, use and combine a variety of software on a range of digital devices to design and create a range of programs, systems and content. Understand computer	Design, write and debug programs. Use sequence, selection and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to explain how some simple	Design, write and debug programs. Use sequence, selection and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to explain how some
	discussions and examples based around personal experiences when appropriate. ONGOING EACH TERM. Online Safety: Research famous nationalists. Science and Geography Online safety Danger Stop motion Animation Storyboards Editing Bletchley Park Understand computer networks including the internet; how they can provide multiple services, such as the world wide web. Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine	discussions and examples based around personal experiences when appropriate. ONGOING EACH TERM. Online Safety: Research famous nationalists. Science and Geography Online safety Danger Stop motion Animation Storyboards Editing Bletchley Park Understand computer networks including the internet; how they can provide multiple services, such as the world wide web. Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software on	discussions and examples based around personal experiences when appropriate. ONGOING EACH TERM. Online Safety: Research famous nationalists. Science and Geography Online safety Danger Stop motion Animation Storyboards Editing Bletchley Park Understand computer networks including the internet; how they can provide multiple services, such as the world wide web. Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software on a variety of software	discussions and examples based around personal experiences when appropriate. ONGOING EACH TERM. Conline Safety: Research famous nationalists. Science and Geography Online safety Danger Stop motion Animation Storyboards Editing Bletchley Park Understand computer networks including the internet; how they can provide multiple services, such as the world wide web. Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software on a variety of softwar	discussions and examples based around personal experiences when appropriate. ONGOING EACH TERM. Online Safety: Research famous nationalists. Science and Geography Online safety Danger Stop motion Animation Storyboards Editing Bletchley Park Understand computer networks including the internet; how they can provide multiple services, such as the world wide web. Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Belect, use and combine a variety of software on a variety of software o

devices to design and create a range of programs, systems and content.

Use technology safely, respectfully and responsibly; recognise acceptable/unacceptabl e behaviour

Online Safety

(6 Lessons)

Discuss a range of issues online that can leave pupils feeling sad. frightened, worried or uncomfortable and can describe numerous ways to get help. Explain how sharing online can have both positive and negative impacts. Be aware of how to seek consent from others before sharing material online and can describe how content can still be shared online even if it is set to private. Explain what a 'digital reputation' is and what it can consist of. Understand the importance of capturing evidence of online bullying and can demonstrate some of these methods on the

devices used at school.

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Online Safety

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work and to detect and correct errors.

Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.

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ation and Subject Links	History Maths Online Safety – discussions and examples based around personal experiences when appropriate. ONGOING EACH TERM.	English	Science		Art & Design Maths	

Key	Code breaking	Radio play	Barcode	Data transfers	Create	Design
Vocabular	Password hacking	Record & edit	QR code	Wifi	Design	Evaluate
у	Enigma code	Console	Infrared waves	Mobile data	Loops	Debug
	Secure	Mobile phone	Data transmission	Big data	Nested loops	Software
	Password	design	RFID	privacy	Text based	Website
	Digital literacy				programming	Advert