

	Year 1 Year 2	Year 3	Year 4	Year 5	Year 6
Computer Science Programming A		 Identify that commands have an outcome. Explain that a program has a start. Recognise that a sequence of commands can have an order. Change the appearance of 	 Identify that accuracy in programming is important. Create a program in a text-based language. Explain what 'repeat' means. Modify a count-controlled loop to produce a given outcome. Decompose a task into small steps. Create a program that uses count-controlled loops to produce a given outcome. 	 Create a program to run on a controllable device. Explain that selection can control the flow of a program. Update a variable with a user input. Use a conditional statement to compare a variable to a value. Design a project that uses inputs and outputs on a controllable device. Develop a program to use inputs and outputs on a controllable device. 	 Define a 'variable' as something that is changeable. Explain why a variable is used in a program. Choose how to improve a game by using variables. Design a project that builds on given examples. Use my design to create a project. Evaluate my project.



Information Technology Computing systems & networks	 Recognise the uses and features of IT. Identify uses of IT in school. Identify IT beyond school. Explain how IT helps us. Explain how to use IT safely. Recognise that choices are made when using IT. 	 Explain how digital devices function. Identify input and output devices. Recognise how digital devices can change the way we work. Explain how a computer network can be used to share information. Explore how digital devices can be connected. Recognise the physical components of a network. 	 Describe how networks physically connect to other networks. Recognise how networked devices make up the internet. Outline how websites can be shared via the World Wide Web. Describe how content can be added and accessed on the World Wide Web. Recognise how the content of the World Wide Web is created by people. Evaluate the consequences of unreliable content. 	 Explain that computers can be connected together to form systems. Recognise the role of computer systems in our lives. Experiment with search engines. Describe how search engines select results. Explain how search results are ranked. Recognise why the order of results is important, and to whom. 	 Explain the importance of internet addresses. Recognise how data is transferred across the internet. Explain how sharing information online can help people work together. Evaluate different ways of working together online. Recognise how we communicate using technology. Evaluate different methods of online communication.



	Describe what different	Use a digital device to take	Recognise how text and	Identify that sound can be	Identify that drawing tools can	Review an existing website and
media		_		· ·	•	
Creating media	computer and on paper.					



<u>Self-image &</u> <u>identity</u>

- Recognise
 people online
 could make
 someone feel
 sad,
 embarrassed or
 upset.
- Give examples of when & how to speak to an adult I trust.

Online relationships

- Give examples
 of when I
 should ask
 permission to do
 something
 online.
- Use the internet with adult support to communicate with people I know.
- Explain why it's important to be considerate and kind online.
- Explain why people find

Online relationships

- Give examples of how someone might use technology to communicate with people they don't know.
- Explain who I should ask before sharing things online.
- Identify who can help if something happens without consent.
- Describe different ways to ask for, give or deny my permission online.
- Explain why I have a right to say no or to ask someone.
- Explain how it makes others feel if I don't ask permission or ignore them before sharing something about them online.
- Explain why I should ask a trusted adult

Self-image and identity

- Explain what is meant by the term identity.
- Explain how people can represent themselves in different ways online.
- Explain ways in which someone might change their identity online and why.

Online relationships

- Describe ways
 people who have
 similar likes can
 get together
 online.
- Explain what it means to know someone online and why this might be different from knowing someone offline.
- Explain what is meant by trusting

Online relationships

- Describe strategies for safe and fun experiences in a range of online social environments.
- Give examples of how to be respectful to others online.
- Describe how to recognise healthy and unhealthy relationships.
- e Explain how content shared online may feel unimportant to one person but important to others.

Online reputation

- Describe how to find out information about others by searching online.
- Explain ways that some information about anyone online

Online bullying

- Recognise online bullying can be different to bullying in the physical world.
- Describe how what one perceives as playful joking might be experienced by others as bullying.
- Explain how anyone can get help if they're being bullied online.
- Identify a range of ways to report concerns and access support in school and at home.
- Describe the helpline services which can help people experiencing bullying.
- Explain how to block abusive users.

Health, wellbeing & lifestyle

 Describe ways technology can affect health and wellbeing both positively and negatively.

Self-image & identity

- evaluate online content relating to different groups and explain why it's important to challenge and reject inappropriate representations online.
- Describe issues online that could make people feel sad and give examples of how to get help online and offline.
- Explain the importance of asking until I get the help needed.

Privacy & security

- Describe effective ways people can manage passwords.
- Explain what to do if a password is shared, lost or stolen.
- Describe how and why people should keep their software and apps up to date.

Digital Literacy



some things funny or sad online that others don't.

Online reputation

- Recognise information can stay online and could be copied.
- Describe what information shouldn't be put online without asking a trusted adult.

Managing online information

- Give simple examples of how to find information using digital technologies.
- Know/understan d that you encounter things you like/don't like online.
- Know to get help from a trusted adult if online

before clicking yes, agree or accept online.

Online reputation

- Explain how information put online can last a long time.
- Describe how anyone's online information can be seen by others.
- Know who to talk to if something has been put online without consent or if it's incorrect

Managing online information

- Use simple keywords in search engines.
- Demonstrate how to navigate a simple webpage to get information.
- Explain what voice activated searching is and how it might be used, and know it's not a real person.

- someone online, why it's different from liking someone online and why it's important to be careful about who to trust online.
- e Explain why
 someone may
 change their mind
 about trusting
 anyone.
- Explain how someone's feelings can be hurt by what is said or written online.
- Explain the importance of giving and gaining permission before sharing things online.

Online reputation

- Explain how to search for information about others online.
- Give examples of what anyone may

could have been created, copied or shared by others. Managing online information

- Analyse
 information to
 make a judgement
 about probable
 accuracy.
- Understand why it's important to make own decisions regarding content.
- Describe how to search for information within a wide group of technologies.
- Describe some methods used to encourage people to buy things online.
- Explain why lots of people sharing opinions online does not make them true.
- Explain that technology can be designed to act

- Describe some strategies, tips or advice to promote health and wellbeing with regards to technology.
- benefits and risks of accessing information about health and wellbeing online and to balance this with talking to trusted adults.
- Explain how and why some apps may request or take payment for additional content.

Privacy & security

- Explain what a strong password is and demonstrate how to create one.
- Explain how many free apps may read and share private information with others
- Explain what app permissions are and

- Describe simple ways to increase privacy on apps and services that provide privacy settings.
- Describe ways in which some online content targets people to gain money or information illegally.
- Know that online services have terms and conditions that govern their use.

Health, wellbeing & lifestyle

- Describe common systems that regulate age-related content and describe their purpose.
- Recognise and discuss the pressures that technology can place on someone and how/when they could manage this,
- Recognise features of persuasive design and how they're used to keep users engaged.



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Explain why som activities have		
age restrictions		



and Alexander						
	 technology, 	 Information 	 digital device, 	• internet,	 system, 	 communication,
	computer,	technology	input,	network,	connection, digital,	protocol, data,
	trackpad,	(IT), computer,	process,	router,	input, process,	address, Internet
	keyboard,	barcode,	output,	security,	storage, output,	Protocol (IP),
	screen,	scanner/scan	program,	switch, server,	search, search	Domain Name
	double-click,	 device, camera, 	digital, non-	wireless access	engine, refine,	Server (DNS),
	typing	photograph,	digital,	point (WAP),	index, bot,	packet, header,
	paint	capture, image,	connection,	website, web	ordering, links,	data payload, chat
	program,	digital,	network,	page, web	algorithm, search	explore, slide
	tool,	landscape,	switch,	address,	engine	deck, reuse,
	paintbrush,	portrait,	server,	routing, web	optimisation	remix,
	erase, fill,	framing,	wireless	browser, World	(SEO), web	collaboration,
	undo, shape	subject,	access point,	Wide Web,	crawler, content	internet, public,
	tools, line	compose, light	cables,	content, links,	creator, selection,	private, one-way,
	tool, fill	sources, flash,	sockets	files, use,	ranking	two-way, one-to-
	tool, undo	focus,	 text, images, 	download,	 vector, drawing 	one, one-to-many
	tool, colour,	background,	advantages,	sharing,	tools, object,	 website, web page
	brush style,	editing, filter,	disadvantages	ownership,	toolbar, vector	browser, media,
	brush size,	format,	,	permission,	drawing, move,	Hypertext Markup
	pictures,	framing,	communicate,	information,	resize, colour,	Language (HTML),
	painting,	lighting	font, style,	accurate,	rotate,	logo, layout,
	computers	instruction,	landscape,	honest,	duplicate/copy,	header, media,
	 Bee-Bot, 	sequence,	portrait,	content,	zoom, select, align,	purpose,
	forwards,	clear,	orientation,	adverts	modify, layers,	copyright, fair
	backwards,	unambiguous,	placeholder,	audio,	order, copy, paste,	use, home page,
	turn, clear,	algorithm,	template,	microphone,	group, ungroup,	preview, evaluate,
	go,	program, order,	layout,	speaker,	reuse, reflection	device,
	commands,	prediction,	content,	headphones,	 Micro:bit, 	breadcrumb trail,
a Z	instructions,	artwork,	desktop	input device,	MakeCode, input,	navigation,
Vocabulary	directions,	design, route,	publishing,	output device,	process, output,	hyperlink,
000	left, right,	mat, debugging,	copy, paste,	sound, podcast,	flashing, USB,	subpage, evaluate,
>	route, plan,	decomposition		edit, trim,	trace, selection,	implication,



algorithm, program	purpose, benefits Scratch, programming, blocks, commands, code, sprite, costume, stage, backdrop, motions, turn, point in direction, go to, glide, sequence, event, task, design, run the code, order, note,	align, layer, import, record, playback, selection, load, save, export, MP3, evaluate, feedback • Logo, program, turtle, commands, code, snippet, algorithm, design, debug, pattern, repeat, repetition, count- controlled loop, value, trace,	condition, if then else, variable, random, sensing, accelerometer, value, compass, direction, navigation, design, task, algorithm, step counter, plan, create, code, test, debug	external link, embed variable, change, name, value, set, design, event, algorithm, code, task, artwork, program, project, test, debug, improve, evaluate, share, assign, declare
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