



SUPER 6

- I can discuss what the internet is and how it can be used
- I recognise that the internet may affect mood or emotions
- I recognise how internet use can affect and upset others
- I can identify which information is appropriate to share and post online and which is not
- I know what to do if I feel unsafe or worried online – I tell a trusted adult
- I know that people I do not know on the internet (online) are strangers and are not always who they say they are

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I can use common words and phrases relating to computing

feelings		Emotions we have (happy, sad, etc.)
online		Using the internet
appropriate		Things that are meant for children to see and do

Other words or phrases I may use...

...for programming		robot, instruction, program, turtle, control, rule, coding, design, up, down, underneath, centre, (anti)clockwise, position, direction, above, below
...for hardware, systems, etc.		network, internet, web, computer, app, Google, search engine, gif, digital
...for controls		keyboard, double-click, mouse, right-click, left-click, screen, touchscreen, shut down, start, menu
...for talk about IT		research, search

Key ideas



digital footprint



going online



online / internet



personal information



trusted adult

Types of personal information



name



birthday



address

5

age

Staying safe online

Strangers are people you don't know online

Be kind online as you would in real life

Keep personal information private and secure

Tell or ask a trusted adult if you are unsure



SUPER 6

- I can explain what is meant by online information and what information is safe to be shared online
- I can explain why we need passwords and what makes a strong password
- I understand that I need to ask permission before sharing content online and explain why
- I understand that I have the right to deny my permission to information about me being shared online
- I can say who I can ask for help with online worries
- I can use some strategies to work out if online information is reliable or not

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You will learn different ways to make a strong password

I can use a wide variety of everyday computing terms

consent		When you agree to something
permission		When you are allowed to do something
reliable		Can be trusted

Other words or phrases I may use...

...for programming		sprite, (de)bug, data, information, object, model, process, horizontal, vertical, diagonal (i.e. sloped), symmetrical, reflect, left, right
...for hardware, systems, etc.		device, application, tool, file, drive, disk, (sub)folder, save, save as, internet search, video, audio, text, image, hardware, editing, presentation software, window, material
...for controls		shift, control, caps lock, password, return, enter, backspace, delete, open, close, select, zoom, highlight
...for talk about IT		similarity, difference, landscape, portrait

1. You can combine upper and lower case letters, numbers and symbols

Happy333? BiKeR4646!

2. You can make numbers look like letters

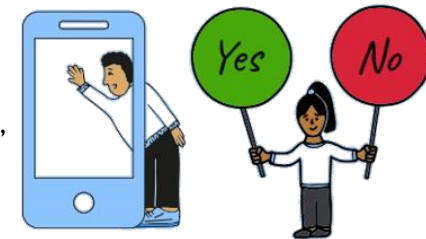
M0nk3y321. D1nos4ur456!

3. You can join words together

Slimebike45! Iloveschool123.



We must ask someone's **permission** before sharing photos, videos or information about them



It is OK to say no when someone asks if they can share something online about us; if you agree, you are giving **consent**



Did you know?

Not everything on the internet is true
It can sometimes be difficult to tell what is true and what is false; this is why it is important to use **reliable** websites





SUPER 6

- I can differentiate between fact, opinion and belief online
- I can explain how to deal with upsetting online content
- I know how to support others who may have encountered upsetting content
- I can recognise that digital devices communicate with each other to share personal information
- I can explain what social media platforms are used for
- I recognise why social media platforms are age-restricted

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Find more information!
The BBC's Own It website has lots of tips and information to keep you safe online!
www.bbc.com/ownit

Scan this QR code to take you there!



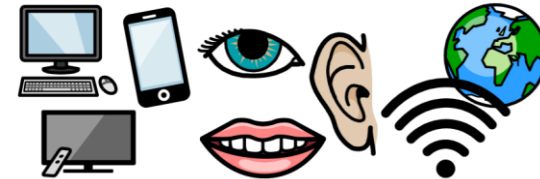
I can start using specialist vocabulary and computing terms

accurate		Something that is correct in every way
digital devices		A piece of technology that can send, receive, process and store information
age restrictions		Age restrictions are rules that mean you have to be a certain age to do things, such as being on social media

Other words or phrases I may use...

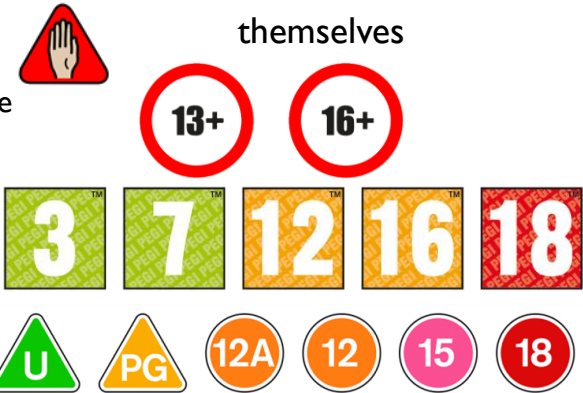
...for programming		digitise, algorithm, sequence, series, programming language, purpose, value, perpendicular
...for hardware, systems, etc.		motor, input, output, digital resources, text, post, social media, community, meme, email, blog, vlog, forum, font, URL, word processing, voice recognition, kilobyte, megabyte, tab, control panel, icon, file extension, personal data
...for controls		'control alt', cursor, short cut, drag, drop, cut, copy, paste, crop, rotate, flip, top-and-tail, screengrab, minimise, maximise
...for talk about IT		relevance, retrieve, content, numerical, clarify, opinion, communication

It is important to think carefully about the information we share online



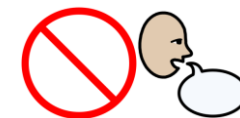
Our **digital devices** are communicating all the time and sharing the information between themselves

Age restrictions show the minimum age you have to be to go on apps, websites, or see certain media

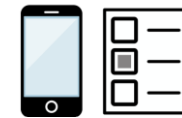


Age restrictions are used to stop children seeing inappropriate content

If you see something online that makes you feel upset or unsafe, you should:



Block and report it



Check your device's privacy settings



Tell a trusted adult



SUPER6

- I can describe how to search over multiple platforms and be aware of the accuracy of the results presented
- I can describe some of the methods used to persuade people to buy online
- I can explain the difference between fact, opinion and belief and recognise these online
- I can explain what a bot is and give examples of different bots
- I can explain some positive and negative distractions of using technology
- I can suggest small strategies for reducing the time spent on technology

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We all need to behave safely and respectfully both online and offline

I can use specialist vocabulary and computing terms

trustworthy		Can be trusted; has been proven to be reliable in the past
bot		A computer program (sometimes called a chatbot) that can act like a living thing, e.g. talking to Alexa
implications		When you can draw a conclusion, or infer, from something, even though it is not clearly said
screen time		How much time you spend using a digital device like a computer, phone, tablet, television or games console



Other words or phrases I may use...

...for programming		repetition, selection, simulation, pattern, logical reasoning, structure, cause, characteristic, phase, transition, angle
...for hardware, systems, etc.		sensor, physical, system, browser, gigabyte, back up, jpeg, pixel, resolution, quality, Mpeg, wav, pdf
...for controls		control pane animation pane, pop up, publish, share
...for talk about IT		inappropriate, contribution, manipulate, reliability

search bar

search results

adverts

snippets

All search engines work slightly differently. It is important to understand how the results are found and displayed.

Technology can be both a positive and negative distraction. If technology is making you feel sad or angry, or if you are spending too much time on it, then try to find something else to do that does not involve **screen time**.



Companies will use lots of different ways to try and get you to spend money online. How many of these have you seen?



Special offers

Extra lives/objects

Pay to see no ads



SUPER6

- I understand that passwords need to be strong and that apps require some form of password
- I can recognise some types of online communication and know who to go to if I need help with any matters online
- I can search for simple information about a person, such as their birthday or key life moments
- I know what bullying is and that it can occur both online and in the real world
- I recognise when health and well-being are being affected in either a positive or negative way through online use
- I can offer some advice and tips to combat the negative effects of online use

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I can use specialist vocabulary and computing terms in appropriate ways

opinion		Someone's view about something, that is not always based on facts or knowledge
trusted adult		People who's words and actions make you feel safe; they could be a parent, carer, teacher, aunt, uncle, older sibling
contribution		An idea that you add to a discussion or project
well-being		The state of your mind, health and happiness
health		The mental and physical condition of a person or living thing

Other words or phrases I may use...

...for programming		protocol, deconstruct, improve, efficiency, audience, complex, prior, subsequent
...for hardware, systems, etc.		gateway, hub, router, server, driver, cookies, file directory, send, reply, CC, BCC, reply all, recipient, field, permissions, cache, flash drive, memory stick, HTML, open source, wikis, solid state, fibre optic, identity theft
...for controls		internet/browser history, bookmark, password strength
...for talk about IT		impact, obstacle, crucial, rigorous, verify, context, paraphrase, quote, verbatim

Strong passwords have these features

Did you know?

When you install apps on your device, they need your permission for things such as accessing the location, contacts list or photo library
It is important to know where these settings are, and what the apps do with this information

1. Access the camera (and take pictures/video), the microphone (and record sound), the device's WIFI connection, and the full contact list on the device
2. Determine if the internet is available and access it
3. Keep the device turned on and automatically start itself when the device restarts
4. Secure detailed information on the user's location using GPS and other apps that are running
5. Read and write to the device's storage, install/remove shortcuts, access the flashlight (turn it off and on), request additional installation packages



These are the permissions that a popular video sharing app asks for when you install it
Do some of these permissions surprise you?



Fun Fact!
Any form of online communication can be misinterpreted – even emojis and memes!



If you see something online that upsets you, tell a **trusted adult**
You can also contact Childline which is a **free** service





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SUPER6

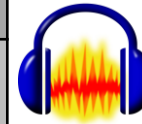
- I can explain how to record sounds and add in sound effects over the top
- I can produce a simple radio play with some special effects and simple edits which demonstrate an understanding of how to use the software
- I can create a document that includes correct date information and facts about the computers and how they made a difference
- I can demonstrate a clear understanding of my device and how it affected modern computers
- I can include well-researched information with an understanding of the reliability of my sources
- I can describe all of the features that we'd expect a computer to have including RAM, ROM, hard drive and processor

I can use specialist vocabulary and computing terms in sophisticated ways

background music		A secondary sound (or piece of music) that is part of the media, but the viewer's attention is not focussed on it because of another, primary, sound
hardware		The machines, wiring and other physical components of a computer
operating systems (OS)		The base software needed on a computer for it to be able to manage basic commands, hardware and software, and provide a user-friendly interface
processor		A name for the central processing unit (CPU) of a computer; CPUs control and run operations
sound		The noise that is played as part of a piece of media; it might be dialogue, music or sound effects

Other words or phrases I may use...

...for programming		binary, functionality, aesthetics, user, interface, deterministic, simultaneous, cumulative, concentric, radial, intersecting
...for hardware, systems, etc.		IP address, phishing, virus, terabyte, metadata, VoIP service
...for talk about IT		controversy, prejudice, authentic, plausible, analyse, discern, copyright, plagiarism



Audacity is a sound editing software where you can combine sound clips, edit clip lengths, record sounds and add sound effects

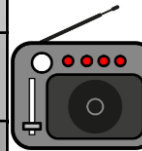


The **BBC Sound Effects Archive** has lots of free clips you can download and use for non-commercial projects

(-) Soundtrap



Soundtrap is an online music editing program with similar features to Audacity



Did you know?

Some of the first computers were created in WW2 and helped the Allies win the war

In this unit, you will make a short radio play (or podcast) to share information about these computers or important people



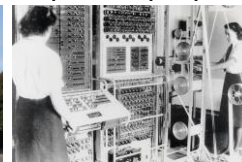
Alan Turing



Tommy Flowers



Bletchley Park



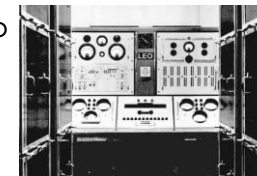
Colossus

Computers have changed a lot over the years
You will research about different computers and their impact on the history of computing

Memory sizes:	Bytes:	Invented:	Abbreviation:
1 kilobyte	1,000	1950	(kb)
1 megabyte	1,000,000	1956	(mb)
1 gigabyte	1,000,000,000	1986	(gb)
1 terabyte	1,000,000,000,000	2007	(tb)



Commodore 64



LEO



Raspberry Pi



Nintendo Entertainment System (NES)