



SUPER 6

- I know that sorting objects into various given categories can help to locate information
- I can choose how to sort objects, including sorting other children into groups
- I am beginning to sort independently using my own categories
- I know that using yes/no questions to find an answer is known as a branching database
- I can ask and answer yes/no questions to create a branching database
- I know how to create a branching database

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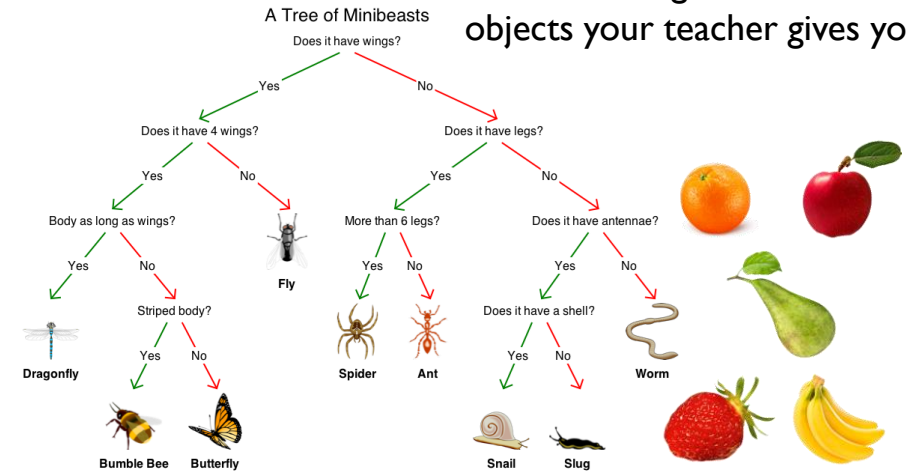
This is a **branching database**
It uses yes/no questions to sort minibeasts
You will need to make your own branching database to sort objects your teacher gives you

I can use common words and phrases relating to computing

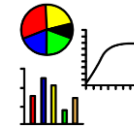
column		A set of information (data) all of the same type; it goes up and down the screen
row		A set of information about the same thing; it goes across the screen
graph		A picture that is made using different pieces of information

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



When you collect data, you might need to put it in a table to make it easier to read
You can present it in other ways, including **graphs** and **pictograms**



Can you make a branching database to sort these fruits?

This pictogram shows how many minibeasts a class found
Can you work out how many of each type of minibeast they saw?

Minibeast	Number of minibeasts
spider	
ladybird	
centipede	
worm	

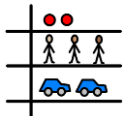
Key

= 1 minibeast

Can you use your own data to make your own pictogram?

Did you know?

Pictograms are a type of **graph** where different symbols represent amounts





SUPER 6

- I can name some computer peripherals and their functions
- I recognise that buttons cause effects
- I can explain that technology follows instructions
- I recognise different forms of technology
- I can design an invention which includes inputs and outputs
- I can explain the role of computers in the world around me

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Do all computers look like this?
Can you think of or draw a different type of computer?

I can use a wide variety of everyday computing terms

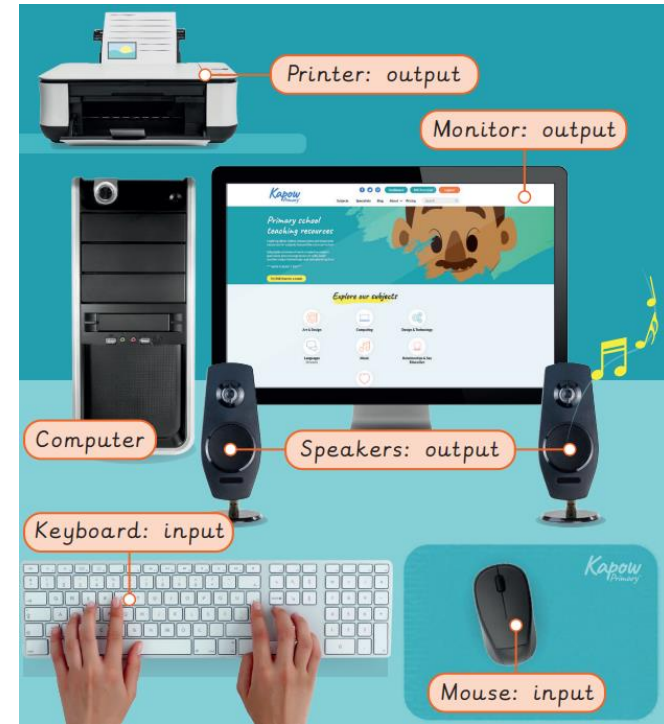
desktop		A tower computer that stays in one place and needs a keyboard, monitor and mouse
technology		Using scientific knowledge to help us make new devices and tools
digital		Using (or relating to) computer technology

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

Computers have different **input** and **output** peripherals – some are shown here

Some computers have a keyboard and mouse, others have buttons and touchscreens



These are all examples of technology
Are they computers?
Do you know any other examples of technology?



Did you know?

All computers need electricity – they can get this through wires or batteries!





SUPER 6

- I recognise that a network is two or more devices connected and its purpose and identify key components that make up the school's network
- I can explain the difference between wired and wireless connections
- I understand the role of the server in a network when requesting a website and recognise that files are saved on a server
- I can identify parts of a website's journey to reach my computer
- I recognise that routers connect to send information
- I understand that data is broken into packets

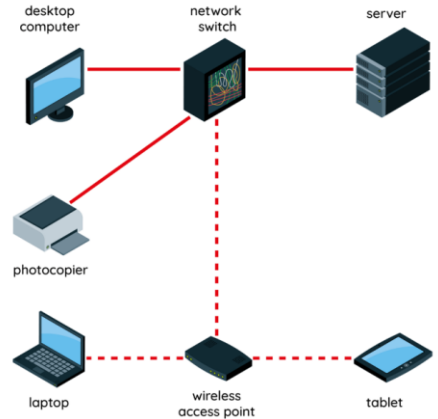
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I can start using specialist vocabulary and computing terms

World Wide Web		An information system on the internet that allows us to find information by clicking on links
Wi-Fi		A wireless network connection that allows devices to connect without cables
network		Multiple devices connected over the internet (or a local connection) to share files and information
internet		A global computer network

Other words or phrases I may use...

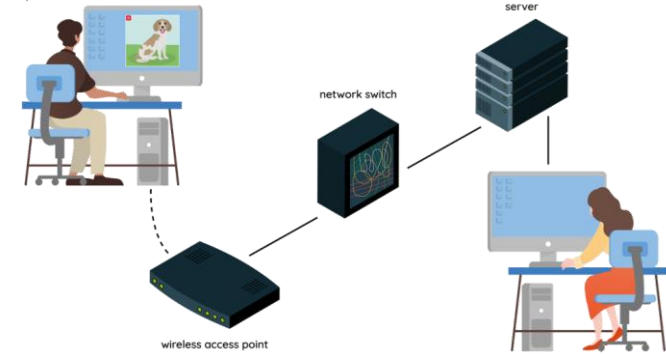
...for programming		digitise, algorithm, sequence, series, programming language, purpose, value, perpendicular
...for hardware, systems, etc.		motor, input, output, digital resources, text, post, social media, community, meme, email, blog, vlog, forum, font, URL, word processing, voice recognition, kilobyte, 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



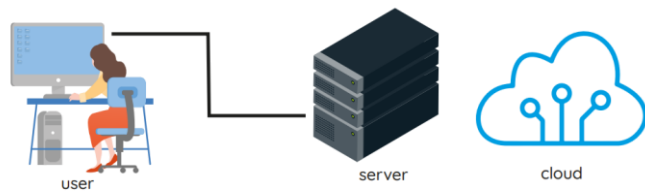
Networks are made up of different devices

When a file is shared, it travels through these devices on the network

You can send many different types of file through a network, including images, music and videos



When a user requests a website, the server retrieves the stored data and sends it back as the displayed website





SUPER 6

- I understand the need to be thoughtful when working on a collaborative document
- I can use comments to suggest changes to a document
- I understand how to resolve conflicts when disagreements arise
- I can plan a survey for Microsoft Form with a range of different questions types that will provide different types of answer
- I can create a Microsoft Form with a range of different question types that will provide different types of answer
- I can export data to a spreadsheet, highlighting data, using conditional formatting and calculating averages and sums of numbers

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I can use specialist vocabulary and computing terms

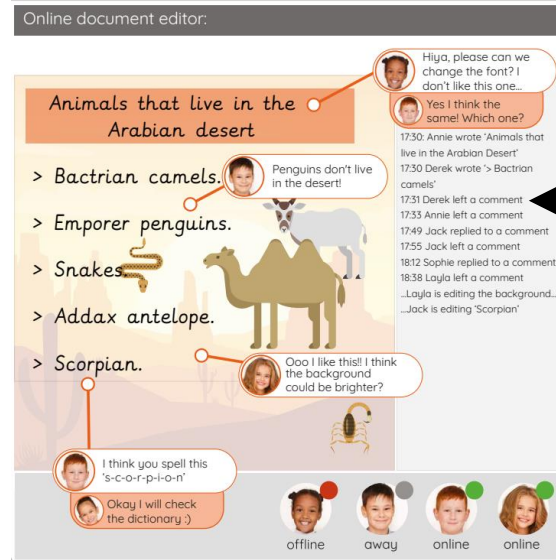
collaboration		Working with others to achieve a specific goal
format		The way something is arranged or laid out
contribution		An idea that you add to a discussion or project
numerical data	123	Information in the form of numbers

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



Did you know?
People can **collaborate** (work together) on documents, spreadsheets, presentations and more over different networks



You can see who has left comments and who has replied to comments in the **comments pane**

Your **contributions** can be seen by everyone working on the document



Some software will tell who is online and who isn't

The **format** of a document can include:
colours fonts shapes and sizes of pictures
layout text size text colour





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SUPER 6

- I can explain what a search engine is, suggesting several search engines to use and explain how to use them to find websites and information
- I can suggest that things online aren't always true and recognise what to check for
- I can explain why keywords are important and what TASK stands for, and use these strategies to search effectively
- I recognise the terms 'copyright' and 'fair use'
- I can combine text and images in a poster
- I can make parallels between book searching and internet searching, explaining the role of web crawlers and recognising that results are rated to decide rank

I can use specialist vocabulary and computing terms in appropriate ways

copyright		The exclusive rights given to the creators of film, music and other media to publish, perform, etc.
deceive		To convince someone that a lie is the truth
index	A-Z	How a computer saves information about previous searches to make results quicker the next time they are accessed
rank		How web pages are sorted to give the user the most suitable results at the top of the list; the first result can be considered 'rank one'
web crawler		A program that uses keywords to search the web in logical and systematic ways to find the most suitable results for the user

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

There are many different search engines, but they often have similar features



Fake news can be a threat to democracy – you need to learn how to spot it!



Use **TASK** to help you find suitable search results

Title – the name of the page

Author – is it reliable?

Summary – read the description

Kids – add 'kids' to your search term





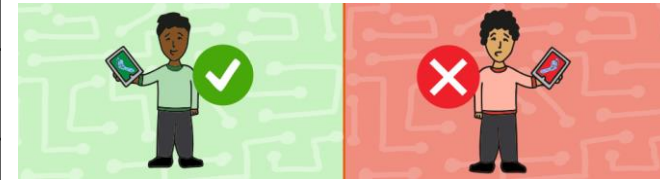
SUPER6

- I can discuss various issues online that can leave children feeling sad, frightened, worried or uncomfortable and can describe numerous ways to get help, including how sharing online can have both positive and negative impacts
- I am aware of how to seek consent from others before sharing material online and describe how content can still be shared online even if it is set to private
- I can explain what a digital reputation is and what it can consist of
- I understand the importance of capturing evidence of online bullying and demonstrate some of these methods on the devices used at school
- I can describe ways to manage passwords and strategies to add extra security, such as two-factor authentication and explain what to do if passwords are shared, lost or stolen
- I can describe strategies to identify scams and ways to increase my privacy settings and understand why it is important to keep my software updated

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I can use specialist vocabulary and computing terms in sophisticated ways

phishing		Where someone tries to trick you into giving them your information
malware		Software that can steal and send your personal information
two-factor authentication		A security process where users provide two different ways to show who they are
digital personality		The person that companies, organisations and other people can see based on someone's digital footprint



Your **digital footprint**, or **digital personality**, can affect your online reputation in positive and negative ways



Using avatars, impersonal usernames and **not** giving out your personal information are good ways to reduce your **digital footprint** and **digital personality**

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

Before you share online...**THINK!**

Who do I want to see this?

OK Do I need to ask someone's permission?

Is this something I should be sharing?

Am I sharing something I know is true?

You might see something online that makes you feel sad, worried, uncomfortable or frightened

- To protect yourself and get help, you can:
- Tell a trusted adult
- Use privacy settings
- Block, report and screengrab



Phishing is where scammers try to trick people into giving them personal information, usually via email

Malware is software that can steal and send information from your computer to criminals; it is usually disguised as something else to trick people into installing it

