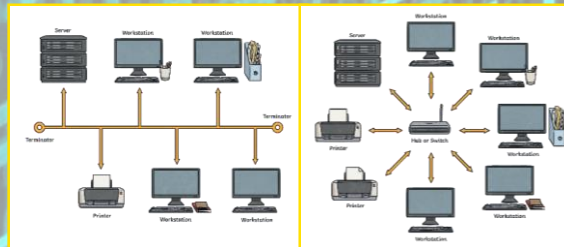


Networks Knowledge Organiser

We will be learning about different types of Computer Networks

Golden Vocabulary - Links to previous learning	
Network	A group of connected devices including computers and other hardware that are linked together and share information
Web Server	a computer which holds websites for other computers linked to the internet to access
Cables (copper, fibre optic) and Wireless Connections	How information is transferred between devices -
HyperText Transfer Protocol (HTTP)	Each computing device that connects to the internet has this. It is its own unique address which is made up of numbers.

Components of a Computer Network



Bus & Star Topology

Vocabulary	
Local Area Network (LAN)	Small wired or wireless network typically used in a singular building or single for of a large building
Metropolitan Area Network (MAN)	Larger than a LAN but smaller than a WAN. Usually connects devices within a city
Wide Area Network (WAN)	A network that covers more than 48km/30miles. (from school to Clacton)
Topology	is a term used to define the layout or structure of a computer network.
Node	Any device that sends or receives data through a network
Protocol	A protocol is a set of rules that say how information and data should be sent.
DNS Server (Domain Name Systems)	These share information and data on the internet and translates it into human-friendly text
Cloud Storage	Cloud computing is the storage of files online. A group of computers provide storage services through the Internet.

Digital Literacy Knowledge Organiser

When using the internet we need to know how to be a digital citizen and understand how to use it responsibly and safely

Golden Vocabulary - Links to previous learning	
SMART	E-safety rules standing for : Safe, Meet, Accept, Reliable, Tell.
Cyber-Bullying	Bullying that takes place through devices connected to the internet – online games, texts, video calls
HTTPS	Hypertext Transfer Protocol Secure – this shows that a website is safe and secure when sharing information and data
Strong Passwords	A password that is not easy to guess and uses UPPERCASE, lowercase, numbers and special characters !?#*

Microsoft Teams is an example of an app that allows you to work collaboratively online and what we use in school to do this



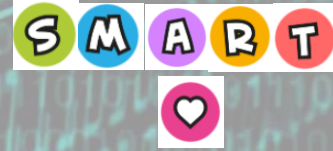
Protocol for Working Collaboratively:

- Be kind, Be Safe, Be responsible
- Work together, listen to each other and respect each other's views
- Think about what you say online as written text can be misinterpreted
- Do not delete anything that isn't yours without permission from the original author

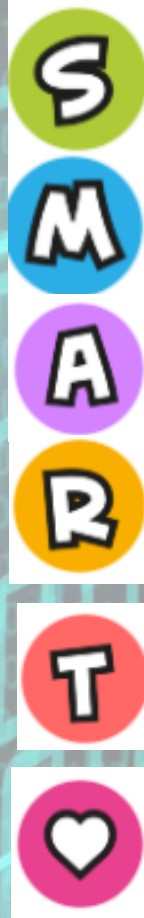
Vocabulary	
Collaboration	the action of working with someone to produce something
Commenting	while collaborating you can inform the people you are working with what you think using 'Comments' on documents
Communication	the exchanging of information through speech or writing
Data Protection	is the process of protecting sensitive information from damage, loss, or corruption.
Protocol	A procedure or rule for a particular system

E-Safety Knowledge Organiser

When using the internet we need to know how to be a digital citizen and understand how to use it responsibly and safely



Golden Vocabulary - Links to previous learning	
E-Safety	Rules on how to stay safe while using the Internet
Internet	A network of computers connected to each other around the world
Devices	The hardware that u=you use when using the Internet - phone, tablet, computer, laptop



S Keep your personal information safe. When chatting or posting online don't give away things like your full name, password or home address. Remember personal information can be seen in images and videos you share too.

M Meeting up with someone you only know online, even a friend of a friend, can be dangerous as this person is still a stranger. If someone you only know online ever asks you to meet up, for personal information or for photos/videos of you then tell an adult straight away and report them together on www.thinkuknow.co.uk

A Think carefully before you click on or open something online (e.g. links, adverts, friend requests, photos) as you never know where they may lead to or they may contain viruses. Do not accept something if you are unsure of who the person is or what they've sent you.

R You cannot trust everything you see online as some things can be out of date, inaccurate or not entirely true. To find reliable information compare at least three different websites, check in books and talk to someone about what you have found.

T Tell a trusted adult if something or someone ever makes you feel upset, worried or confused. This could be if you or someone you know is being bullied online. There are lots of people who will be able to help you like your teachers, parents, carers or contact Childline - 0800 11 11 or www.childline.org.uk

Heart Remember to always be smart with a heart by being kind and respectful to others online. Make the internet a better place by helping your friends if they are worried or upset by anything that happens online.

Vocabulary	
	S is for safe
	M is for Meet
	A is for accepting
	R is for reliable
	T is for tell
	Be SMART with a heart