



Year 4 Computing: Online Safety



Prior Learning

'We are Network Engineers' (Year 3)

- I know some of the ways that data is passed across the internet.
- I understand how computers can be linked to web browsers abroad.
- I know that I must be careful about sharing personal information.



Sticky Knowledge

- I understand how children can protect themselves from online identity theft
- I understand that information put online leaves a digital footprint or trail and that can aid identity theft.
- I can identify the risks and benefits of installing software including apps.
- I understand that copying the work of others and presenting it as their own is called 'plagiarism'
- I know how to use appropriate behaviour when working together on online projects.
- I can identify the positive and negative influences of technology on health and the environment.
- I understand the importance of balancing game and screen time with other parts of my life.



Vocabulary

| | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------|
| attachment | A file, which could be a piece of work or a picture, that is sent with an email. |
| citation | Making reference to the original source of a piece of information, quotation or image. |
| collaborate | To work jointly on an activity or project. |
| cookies | A small amount of data generated by a website and saved by a web browser. Its purpose is to remember information about the user. |
| copyright | When the rights to something belong to a specific person. |
| digital footprint | The information that exists on a the internet as a result of someone's online activity. |
| malware | Software that is designed to disrupt, damage or gain unauthorised access to a computer system. |
| phishing | sending emails pretending to be from a reliable source to gain access to personal information. |
| spam | Messages sent over the internet , to may users, to for the purposes of advertising, phishing or spreading malware. |
| SMART rules | A set of rules based around the word SMART, designed to keep you safe online. (SAFE, MEET, ACCEPT, RELIABLE, TELL |
| virus | A piece of code which can copy itself and damage a device, such as a computer system. |

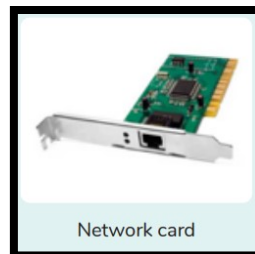
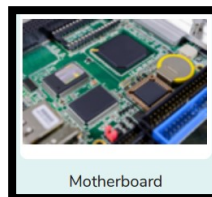


Year 4 Computing: **Hardware Investigators**

Prior Learning

'We are Network Engineers' (Year 3)

- I can describe the way hardware works to connect computers.
- I know some of the ways that data is passed across the internet.
- I understand how computers can be linked to web browsers abroad.
- I know that I must be careful about sharing personal information.



Sticky Knowledge

- I understand and can name the different parts that make up a computer.
- I understand the difference between hardware and software.
- I know how to use equipment responsibly.

Vocabulary

| | |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| motherboard | A printed circuit board containing the main parts of a computer or other device, with connectors for other devices to be slotted into. |
| CPU (central processing unit) | The part of a computer in which operations are controlled. |
| RAM (random access memory) | Allows programs to store information to help the computer run more quickly. |
| graphics card | A printed circuit board that controls the output to a display screen. |
| network card | An electronic device that connects a computer to a computer network. |
| monitor | A screen which displays an image generated by a computer. |
| speakers | A device for letting you hear sounds generated by the computer. |
| keyboard and mouse | External input devices. |