

COMPUTATIONAL THINKING



- **WWW** - public websites or pages which can be accessed on computers and other devices through the internet.
- **Internet** - vast network which connects computers throughout the world. Users are able to communicate anywhere with an internet connection.

SAFE & RESPONSIBLE USE



Posting Online - There are currently no laws regarding asking for permission to post online and the age of the subject. Guidelines suggest children should be consulted from 12 years old.

Reporting - recognising the agencies and people that incidents online can be reported to, such as CEOP (Child Exploitation and Online Protection).

CAREERS



Computer Hardware Engineers research, design, develop, and test computer systems and components. Approx. annual salary £43,800

SYSTEMS



- **Protocol** - a set of rules or procedures for transmitting data between electronic devices.
- **Network** - Two or more computers connected together allowing them to communicate.
- **Hub** - Software which allows a number of computers to connect together via cables plugged into the hub.
- **IoT** - Internet of Things: relates to connectivity of everyday items to the internet. This includes items such as light switches and doorbells.
- **Web Browser** - software used to view information on the WWW.
- **Web Server** - located within the internet, which holds website web pages.
- **Sequence** - The order in which commands are carried out by a computer.

Key vocabulary and meanings

Hardware - Hardware is the physical components of a computer such as those listed above in 'Systems'.

Software - Software is the programs that run on a computer.

Mainframe - data servers designed to process up to 1 trillion web transactions daily with the highest levels of security and reliability.

***Hyperlink** - a link from a hypertext document to another location, activated by clicking on a highlighted word or image.

Spam - unsolicited communication sent in bulk.

***Decomposition** - Decomposition is one of the four cornerstones of Computer Science. It involves breaking down a complex problem or system into smaller parts that are more manageable and easier to understand.