

**National Curriculum Links: KS2 Computing**

- Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content

**Information Technology Vocabulary**

<b>Information technology</b>	Information technology (IT) is the use of computers to store, retrieve, transmit, and manipulate data or information
<b>computer networks</b>	Two or more computers that are connected with one another for the purpose of communicating data electronically
<b>internet</b>	The internet is a huge network of computers all connected together
<b>World Wide Web</b>	The world wide web ('www' or 'web' for short) is a collection of webpages found on this network of computers
<b>communication</b>	There are many different types of communication technology. They all have different strengths. It is important to think about which type of communication is best for each occasion
<b>collaboration</b>	The action of working with someone to produce something
<b>evaluate</b>	To judge something for its value, reliability and use
<b>search engine</b>	A great way to find things on the web using key words or filtering results
<b>online information</b>	Online information is found, on the internet, viewed and interpreted
<b>privacy</b>	Someone's right to keep their personal matters and relationships secret
<b>security</b>	To keep all the information stored on a computer or on the internet safe from people who want to steal it or change it
<b>copyright &amp; ownership</b>	Copyright is a legal protection extended to those who produce creative works. The act or right of possessing something

- I will know...**
- the key internal parts of a computer – CPU / processor, motherboard, RAM and can describe what each part does
  - how to identifying the most relevant results from a search engine – not just 'sponsored' links
  - **key concepts including: Data, information, fact, opinion belief, true, false, valid, reliable and evidence**
  - **the difference between online mis-information (inaccurate information distributed by accident) and dis-information (inaccurate information deliberately distributed and intended to mislead)**
  - **and give examples of when and why it is important to be 'sceptical' when online**
  - I can create and use strong and secure passwords
  - I can explain how many free apps or services may read and share my private information with others
  - when searching on the internet for content to use, I can explain why I need to consider who owns it and whether I have the right to reuse it



**CPU / Processor**  
Central processing unit - the brain of the computer that processes program instructions. The CPU and memory work together to run programs



**Motherboard**  
The circuit board inside a computer that houses the CPU, memory and connections to other devices. This lets them work together.



**RAM**  
RAM is the main place for storing instructions and data whilst a program is being executed. RAM is usually measured in gigabytes. The more gigabytes of RAM a computer has, the more programs and operations it can handle at the same time

**Website Evaluation 5W's**

- 1 - Who wrote it?
- 2 - What is the purpose of the resource?
- 3 - When was the resource published?
- 4 - Where is the information from?
- 5 - Why is this resource reliable?

Can you share five facts about Bletchley Park & the Enigma Code?

**How does a Search Engine work?**

A **search engine** will scan its index of webpages for content related to your **search**. A search engine makes this index using a program called a '**web crawler**'. This automatically browses the web and stores information about the pages it visits. You need to think about the important **keywords** you us.