

**Subject: Computing****Year group: 5 Term: Autumn 1****Title: Systems and searching****What should I already know?**

- The World Wide Web is part of the internet
- The global interconnection of networks is the internet
- For security reasons, certain information should not be shared on the internet
- Images, text, videos and music can be added to, created and shared on the World Wide Web
- Anyone can create, own and share content on the World Wide Web
- The internet enables us to view the World Wide Web
- The World Wide Web is made up of websites and web pages
- The World Wide Web makes it easier for people to get information and communicate

**Facts I will learn**

- A system is a set of interconnected parts which work together
- Large IT systems contain inputs, processes and outputs
- Computers can be connected together to form IT systems
- Data can be transferred between IT systems
- There are different IT systems in our lives
- Search engines are examples of large IT systems
- Search engines create indices of webpages, which are different for each search engine
- Ranking orders search results to make them more useful
- Website ranking is determined by rules, and that different search engines use different rules
- Search engines make money by selling targeted advertising space
- The limitations of search engines include relevancy and reliability of results

**Key questions**

- What is a system?
- How do computer systems work?
- How can search engines be used?
- How do search engines select results?
- How are search results ranked?
- Why is the order of search results important?

**Key Skills****Experiences that school will provide**

- Cross-curricular links with other subjects

**Key vocab****Definition**

<ul style="list-style-type: none"><li>• To describe the input and output of a search engine</li><li>• To demonstrate that different search terms produce different results</li><li>• To evaluate the results of search terms</li></ul>	<ul style="list-style-type: none"><li>• Opportunities to use a range of hardware and software</li></ul>		
<p><b>Web links</b></p> <ul style="list-style-type: none"><li>• <a href="#">Search technologies - BBC Bitesize</a> Information on search technologies</li><li>• <a href="#">Swiggle.org.uk - Child Friendly Search Engine for Kids</a> A search engine for children</li></ul>	<p><b>Experiences that could be provided at home</b></p> <p>Support your child in ensuring they have access to child-friendly search engines on the devices available to them at home.</p>		

<b>System</b>	A set of things working together as parts of a mechanism or network
<b>Digital</b>	Storing, using or sending information electronically in the form of numbers
<b>Input</b>	Entering data into a computer. Input devices include keyboards and touch screens
<b>Process</b>	A program that is running on a computer to make the output meaningful
<b>Output</b>	The data that comes out of a computer. Output devices include a speaker and printer
<b>Search engine</b>	A program that finds webpages on the World Wide Web
<b>Refine</b>	To change your search terms to improve the relevance of your results
<b>Index</b>	A search engine’s database of webpages
<b>Web Crawler</b>	An internet bot operated by search engines that browses the web and adds sites to their index
<b>Bot</b>	A software application that is programmed to do certain tasks
<b>Ranking</b>	A website's position in the search engine results page
<b>Algorithm</b>	A precise set of ordered steps that can be followed by a human and implemented on a computer to achieve a task
<b>Search engine optimisation (SEO)</b>	A process used to increase the visibility of a website by improving its chances to show up in relevant searches on search engines
<b>Content Creator</b>	Someone who publishes online, under their own name or brand

			<b>Selection</b>	Part of a program where if a condition is met, then a set of commands is run
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