



ALMOND HILL JUNIOR SCHOOL MEDIUM TERM PLAN

TOPIC TITLE/SUBJECT: **Computing Systems & Networks - Systems & Searching**

YEAR GROUP: **5**

TERM: **Autumn**

<p><b>Vocabulary</b></p> <p>System Components Digital system Physical connection Electronic connection</p> <p>Search engine Address bar Ranking Webpages Keywords Content creators</p>	<p><b>Skills</b></p> <p>-To explain that computers can be connected together to form systems (systems are built using a number of parts/input, process and output of a digital system/computing systems communicate with other devices)</p> <p>-To recognise the role of computer systems in our lives (identify tasks managed by computer systems/identify human elements of a computing system/explain benefits of a given computer system)</p> <p>-To identify how to use a search engine (web search to find specific information/refine web searches/compare results from search engines).</p> <p>-To describe how search engines select results (why we need tools to find things online/how web crawlers create an index/relate search term to the search engine index)</p> <p>-To explain how search results are ranked (order a list by rank/search engines follow rules to rank results/criteria used by search engines to rank results).</p> <p>-To recognise why the order of results is important, and to whom (how search results can be influenced/limitations of search engines/how search engines make money).</p>	<p><b>What we already know</b></p> <p>This unit progresses learners' knowledge and understanding of computing systems. (Connecting computers and the internet)</p>
<p><b>Online Safety - <a href="#">Education for a Connected World links</a></b></p> <p>-I am aware that a person's online activity, history or profile (their 'digital personality') will affect the type of information returned to them in a search or on a social media feed, and how this may be intended to influence their beliefs, actions and choices.</p> <p>-I can explain how search engine rankings are returned and can explain how they can be influenced (e.g. commerce, sponsored results)</p>	<p><b>Application/ Outcomes</b></p> <p><u>1 Systems:</u> begin to understand that components can work together to perform a task. Explore how digital systems can work and learn about physical and electronic connections.</p> <p><u>2 Computer systems and us:</u> consider how larger computer systems work. See how devices and processes are connected, and reflect on how computer systems can help them.</p> <p><u>3 Searching the web:</u> introduced to a range of search engines. Given the opportunity to explain how to search, before they write and test instructions. Learn that searches do not always return the results that someone is looking for and refine their searches accordingly. Introduced to the 2 most common methods of searching: using a search engine and using the address bar.</p> <p><u>4 Selecting search results:</u> understand why search engines are necessary. Conduct their own searches and break down, in detail, the steps needed to find things on the web. Emulate web crawlers to create an index of their own classroom. Consider why some searches return more results.</p> <p><u>5 How search results are ranked:</u> take part in an unplugged activity to find out about how a webpage's content can influence where it is ranked in search results. Create paper-based webpages on a topic that they are familiar with. They then discover how their webpages would rank when searching for keywords relating to their content.</p> <p><u>6 How are searches influenced?</u> explore how someone performing a web search can influence the results that are returned, and how content creators can optimise their sites for searching. Explore some of the limitations of searching and discuss what cannot be searched.</p>	
<p><b>Other/Cross Curricular Links</b></p> <p><b>PSHE</b></p> <p>€ Digital footprint and influences from the internet.</p>	<p><b>Concepts</b></p> <p>A system is components working together to perform a task.</p>	<p><b>Adaptation for SEND</b></p> <p>Adapted tasks Adapted resources Additional support</p>