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| Computing                        | Year 4 |
| Focus: Systems and searching     |        |
| Age related computing vocabulary |        |

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| External device- Any device that is not housed inside the computer cabinet. E.g. monitors, keyboards, mice and printers. | System- a basic, complete and functional hardware and software setup with everything needed to implement computing performance | Search engine- computer software used to search data (as text or a database) for requested information | Index- a list of data, such as group of files or database entries. |
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| Computing Y4  | Carlton Assessment Grid            |                                   |                    |
|---|------------------------------------|-----------------------------------|--------------------|
| Success Criteria  | Pupil Reflection                   |                                   | Teacher Assessment |
| I can show a basic understanding of how a computer system works   | Before<br><input type="checkbox"/> | After<br><input type="checkbox"/> |                    |
| I can show a basic understanding of how computer systems help us in our daily lives   | Before<br><input type="checkbox"/> | After<br><input type="checkbox"/> |                    |
| I can show a basic understanding of how search engines work and can talk about how reliable search engines are                | Before<br><input type="checkbox"/> | After<br><input type="checkbox"/> |                    |
| I can show a basic understanding of how search engines use indexes  | Before<br><input type="checkbox"/> | After<br><input type="checkbox"/> |                    |
| I can show a basic understanding of how search engines rank results and know that some results may be less useful than others | Before<br><input type="checkbox"/> | After<br><input type="checkbox"/> |                    |
| I recognise the acceptable and unacceptable uses of technology  | Before<br><input type="checkbox"/> | After<br><input type="checkbox"/> |                    |

Key knowledge:

- computers can be connected together to form systems
- systems are built using a number of parts
- computer systems communicate with other devices
- Digital systems are used in a wide range of public contexts, e.g. airport, rail, or bus station arrival and departure boards
- search engines are systems and that in a search engine system, the search engine looks for information
- the input is the entering of the search term and the outputs are the results displayed
- search engines use programs known as crawlers (they may also be referred to as web crawlers, spiders, or spiderbots). Crawlers create an index of the World Wide Web. They 'crawl' websites for searchable content and store where it is found in an index
- search engines use algorithms to rank webpages