



## Linked learning theme: Year 5 – Autumn 1

### **Computing – Computing systems and networks – Systems and searching.**

#### **Prior Learning**

- During the Year 4 unit of work – The Internet – learners will have developed an understanding of what the internet is and will have started to understand the workings of the World Wide Web, websites and webpages. They will have also started to explore how computers link across ‘a network of networks’ and will further expand that knowledge during this module, exploring small scale and large scale databases and how search engines are used to navigate them.

#### **Core knowledge**

Learners develop their understanding of computer systems and how information is transferred between systems and devices. Learners consider small-scale systems as well as large-scale systems. They explain the input, output, and process aspects of a variety of different real-world systems. Learners discover how information is found on the World Wide Web, through learning how search engines work (including how they select and rank results) and what influences searching, and through comparing different search engines.

#### **Key skills**

- Explain the digital process of inputs, processes and outputs.
- Identify purposes for linking computer systems.
- Investigate different methods of searching the internet.
- Refine searches for a specific purpose.
- Design features that would be suitable for searches.
- Reason about the algorithms used to return results on search engines.

#### **Vocabulary**

Input

Process

Output

Digital

Networks

Computer systems

Search engine

Address bar

Web crawler

Index

Algorithm

#### **Learning Outcomes**

- To explain that computers can be connected together to form systems.
- To recognise the role of computer systems in our lives.
- To identify how to use a search engine.

- To describe how search engines select results.
- To explain how search results are ranked.
- To recognise why the order of results is important, and to whom.