Computing Systems and Networks Internet Communication
Year Group 6

Prior Learning Needed

- To recognise that computers can be part of a system in an electronic device
- To understand that computers can be connected together to form systems
- To see that computers, communicate with other devices (including other computers)
- To recognise input, process, and output in larger computer systems
- To recognise how information is transferred across the internet
- To recognise that data is transferred using agreed protocols (methods)
- To recognise the role of computer systems in our lives
- To explain that data is transferred in packets
- To recognise that connections between computers allow us to access shared stored files
- To recognise that connections between computers allow us to work together
- To explain that the internet lets people in different places work together
- To explain that the internet allows different media to be shared
- To evaluate different ways of working together
- To recognise that internet collaborations can be public or private

Vocabulary

- Web crawler
- Search engine
- Index
- Communication
- Ranking
- Searcher
- Content
- Creator

Substantive Knowledge (Facts)

- To recall how to use a search engine
- To compare the results from different search engines
- To demonstrate that different search terms produce different results
- To explain that search terms need to be chosen carefully
- To evaluate the results of search terms
- To identify that results from search engines can include adverts, and that the adverts can be targeted
- To identify different ways to communicate without technology
- To list methods of communicating using the internet
- To choose an appropriate method of internet communication for a given purpose
- To evaluate different methods of online communication
- To explain which types of media can be shared through the internet
- To explain that communicating through the internet can be public or private
- To decide what I should/should not share
- To classify internet communication by messenger and recipient or audience

Disciplinary Knowledge (Skills)

I can:

- Describe what different freehand tools do
- Recognise that there are a number of search engine
- Examine the role of the searcher, search engine, and content creator in the searching process
- Identify some of the limitations of search engines
- Recognise that some information is not searchable
- Define communication
- Discuss the opportunities that technology offers for communication

Explain:

    Why search engines exist

- Why search engines create indexes, and that they are different for each search engine
- How search results are selected
- The role of web crawler
- That ranking narrows down the search results returned from the index, which makes it more useful
- That search results are ordered, and this is known as ranking
- How ranking is determined by rules, and that different search engines use different rule
- Why the order of results is important, and to whom
- How search engines make money by selling advertising space