

BRUNSHAW PRIMARY SCHOOL

Inspiring children to be resilient and aspirational learners, within a positive and considerate community

Subject: Computing

Year group: 6 Term: Autumn 1

Title: Communication and collaboration

What should I already know?

- 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

Facts I will learn

- Data is transferred across networks using agreed protocols (methods)
- Connections between computers allow access to shared stored files
- Data is transferred in packets
- Computers connected to the internet allow people in different places to work together
- Technology offers unique opportunities for communication and collaboration
- Types of media that can be shared through the internet include social media, blogs and podcasts, which may in turn include text, graphics, video and/or audio
- Communicating and collaboration using the internet can be public or private

Key questions

- What are internet addresses?
- How is data transferred across the internet?
- How can sharing information online help people to work together?
- How can we work together online?
- How can we communicate using technology?
- How can we communicate responsibly online?

Key Skills

- To outline methods of communicating and collaborating using the internet

Experiences that school will provide

- Cross-curricular links with other subjects

Key vocab

Definition

• To choose methods of internet communication and collaboration for given purposes • To evaluate different methods of online communication and collaboration • To decide what you should and should not share online	• Opportunities to use a range of hardware and software		
Web links • How to help children communicate appropriately online Internet Matters • Social media guides - UK Safer Internet Centre	Experiences that could be provided at home Discuss the different ways members of your family communicate using the internet. Do different people use different forms of digital communication? Supervise your child whilst they have a video call with another family member. Can they share ways to communicate safely?		

Communication	Sending or receiving information, for example by speaking or writing
Protocol	A set of standards that programmers follow so that their work can be decoded by other computers
Data	A letter, word, number etc. that has been collected for a purpose, but stored without context
Internet Protocol (IP) address	A unique address that identifies a device on the internet or a local network
Domain Name Server (DNS)	Turns domain names into IP addresses, which browsers use to load internet pages
Packet	Data sent over a network is divided into smaller segments called packets
Data payload	The part of transmitted data that is the actual intended message
Collaboration	To work with someone to produce something
Internet	The global system of interconnected computer networks