

Brough Primary School – Curriculum Intention Plan 2023 - 2024



Subject: Computing Year Group: Year 5/6 - Cycle B		Area of learning: Internet Communication and collaboration (NCCE Y6)
Links to previous work/Remember when	<ul style="list-style-type: none"> Y3/Y4 - Basic use of a search engine 	
Term	Year	Key Skills to be taught
Autumn 1 2023 What the children should know at the end of this series of lessons	Y5/6	In this unit learners explore how data is transferred over the internet. Learners initially focus on addressing, before they move on to the makeup and structure of data packets. Learners then look at how the internet facilitates online communication and collaboration; they complete shared projects online and evaluate different methods of communication. Finally, they learn how to communicate responsibly by considering what should and should not be shared on the internet. Note: Some of the content in this unit was previously included in the Year 5 – ‘Computer systems and networks’ unit, so some learners may have already completed similar activities. Where this is the case, the context for the activity has been changed.

Vocabulary

Internet, World Wide Web (WWW), address bar, search, search engine, search box, Google, browser, key words, word order, results, refine, ranked/ranking, index, search engine optimisation (SEO), links, web crawlers, digital content, communication, report, content creator.

Sequence of learning	Objectives and suggested details provided by the subject leader.
1	<p>Lesson 1 - Internet addresses</p> <p>Learners explore what is necessary for effective communication and the importance of agreed protocols. They apply this understanding to IP addresses and the rules (protocols) that computers have for communicating with one another. Learners also use a Domain Name Server (DNS) to translate web addresses into IP addresses.</p> <p><u>Learning objectives</u></p>

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	<p>To explain the importance of internet addresses</p> <ul style="list-style-type: none"> ● I can recognise that data is transferred using agreed methods ● I can explain that internet devices have addresses ● I can describe how computers use addresses to access websites
2	<p>Lesson 2 - Data packets</p> <p>Learners are introduced to the concept of packets. They complete an activity based on transferring an image across the internet, to see that as well as messages (text), other types of data (images, video, and audio) are also transferred over the internet. They gain an understanding of the key parts of a packet: the header and the data payload.</p> <p><u>Learning objectives</u></p> <p>To recognise how data is transferred across the internet</p> <ul style="list-style-type: none"> ● I can identify and explain the main parts of a data packet ● I can explain that data is transferred over networks in packets ● I can explain that all data transferred over the internet is in packets
3	<p>Lesson 3 - Working together</p> <p>Learners consider how people can work together when they are not in the same location. They discuss ways of working and complete a collaborative online project. The online activity assumes that learners can make simple slides, including text and images. If your learners are unsure how to do this, you may wish to spend some time on the Year 3 – ‘Desktop publishing’ unit before this lesson.</p> <p><u>Learning objectives</u></p> <p>To explain how sharing information online can help people to work together</p> <ul style="list-style-type: none"> ● I can recognise how to access shared files stored online

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	<ul style="list-style-type: none"> ● I can send information over the internet in different ways ● I can explain that the internet allows different media to be shared
4	<p>Lesson 4 - Shared working</p> <p>Learners are introduced to another approach to online working: reusing and modifying work done by someone else. (Note: Using someone else's work needs to be within the bounds of copyright and with the relevant permissions.) This lesson involves the Scratch programming tool, which allows learners to use other people's work.</p> <p><u>Learning objectives</u></p> <p>To evaluate different ways of working together online</p> <ul style="list-style-type: none"> ● I can identify different ways of working together online ● I can recognise that working together on the internet can be public or private ● I can explain how the internet enables effective collaboration
5	<p>Lesson 5 - How we communicate</p> <p>Learners deepen their understanding of the term 'communication'. They explore different methods of communication, before they consider internet-based communication in more detail. Finally, learners evaluate which methods of communication suit particular purposes.</p> <p><u>Learning objectives</u></p> <p>To recognise how we communicate using technology</p> <ul style="list-style-type: none"> ● I can explain the different ways in which people communicate ● I can identify that there are a variety of ways to communicate over the internet

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	<ul style="list-style-type: none"> I can choose methods of communication to suit particular purposes
6	<p>Lesson 6 - Communicating responsibly Learners use information provided in the lesson and their own prior knowledge to categorise different forms of internet communication. They then choose which method(s) they would use for the scenarios discussed in the previous lesson. Through these activities, learners explore issues around privacy and information security.</p> <p><u>Learning objectives</u></p> <p>To evaluate different methods of online communication</p> <ul style="list-style-type: none"> I can compare different methods of communicating on the internet I can decide when I should and should not share information online I can explain that communication on the internet may not be private

Learning Outcome/product

To be able to use the World Wide Web as a communication tool and be able to evaluate which methods of internet communication to use for particular purposes.
To be able to communicate online safely.

Assessment records

List only those children who have not achieved the expected outcomes

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End of unit assessment question

Can you give examples of how you can use the World Wide Web to communicate?
Can you explain why you must be cautious about sharing online?