

# Brough Primary School – Curriculum Intention Plan 2021 - 2022



<b>Subject:</b> Computing <b>Year Group:</b> Year 5		<b>Area of learning:</b> Sharing information (NCCE Y5)
Links to previous work/Remember when	<ul style="list-style-type: none"> <li>Y3/4 sharing work, working collaboratively.</li> </ul>	
<b>Term</b>	<b>Year</b>	<b>Key Skills to be taught</b>
<b>Autumn 1 2021</b>  What the children should know at the end of this series of lessons	Y5	During this unit, learners develop their understanding of computer systems and how information is transferred between systems and devices. Learners will consider small-scale systems as well as large-scale systems. They will explain the input, output, and process aspects of a variety of different real-world systems. Learners will also take part in a collaborative online project with other class members and develop their skills in working together online.

## Vocabulary

System, connection, digital, input, process, output, protocol, address, share, collaboration, explore, copyright

Sequence of learning	Objectives and suggested details provided by the subject leader.
1	<p><b>KS2 Computing:</b> <i>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</i></p> <p><u>See Lesson 1 'Systems' - Y5 NCCE 'Sharing Information'</u></p> <p>This lesson introduces learners to the concept of a system. Learners will develop their understanding of components working together to make a whole.</p> <ul style="list-style-type: none"> <li>I can explain that systems are built using a number of parts</li> <li>I can describe that a computer system features inputs, processes, and outputs</li> <li>I can explain that computer systems communicate with other devices</li> </ul>
2	<p><b>KS2 Computing:</b> <i>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</i></p>

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	<p><u>See Lesson 2 'Computer systems and us' - Y5 NCCE 'Sharing Information'</u></p> <p>In this lesson, learners will consider how larger computer systems work. Learners will consider how devices and processes are connected. They will recognise the role of computer systems in our lives.</p> <ul style="list-style-type: none"> <li>• I can identify tasks that are managed by computer systems</li> <li>• I can identify the human elements of a computer system</li> <li>• I can explain the benefits of a given computer system</li> </ul>
3	<p><b>KS2 Computing:</b> <i>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</i></p> <p><u>See Lesson 3 'Transferring information' - Y5 NCCE 'Sharing Information'</u></p> <p>This lesson introduces the idea that parts of a computer system are not always in the same place or country. Instead, those parts of a system must transfer information using the internet.</p> <ul style="list-style-type: none"> <li>• I can recognise that data is transferred using agreed methods</li> <li>• I can explain that networked digital devices have unique addresses</li> <li>• I can explain that data is transferred over networks in packets</li> </ul>
4	<p><b>KS2 Computing:</b> <i>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</i></p> <p><i>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</i></p> <p><u>See Lesson 4 'Working Together' - Y5 NCCE 'Sharing Information'</u></p> <p>In this lesson, learners will consider how people can work together when they are not in the same location. They will discuss ways of working and start a collaborative online project. Children will be able to explain how sharing information online lets people in different places work together.</p> <ul style="list-style-type: none"> <li>• I can recognise that connected digital devices can allow us to access shared files stored online</li> <li>• I can send information over the internet in different ways</li> <li>• I can explain that the internet allows different media to be shared</li> </ul>
5	<p><b>KS2 Computing:</b> <i>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</i></p> <p><i>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</i></p>

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	<p><u>See Lesson 5 'Better Working Together' - Y5 NCCE 'Sharing Information'</u></p> <p>In this lesson, learners will reflect on how they worked together in the previous lesson and how their working together might be improved. Learners will work together on an unplugged activity and use that experience to develop their own ideas of good collective working practices.</p> <ul style="list-style-type: none"> <li>● I can suggest strategies to ensure successful group work</li> <li>● I can make thoughtful suggestions on my group's work</li> <li>● I can compare working online with working</li> </ul>
6	<p><b>KS2 Computing:</b> <i>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</i> <i>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns</i></p> <p><u>See Lesson 6 'Shared Working' - Y5 NCCE 'Sharing Information'</u></p> <p>This lesson introduces another approach to online working: reusing and modifying work done by someone else. (Using someone else's work needs to be done within the bounds of copyright and with the relevant permissions.)</p> <ul style="list-style-type: none"> <li>● I can identify different ways of working together online</li> <li>● I can recognise that working together on the internet can be public or private</li> <li>● I can explain how the internet enables effective collaboration</li> </ul>

## Learning Outcome/product

To be able to talk about computer systems and how information is transferred between systems and devices.  
To be able to evaluate different ways of working together online.

Assessment records	List only those children who have not achieved the expected outcomes
	Children working above.

## End of unit assessment question

How can computer systems help us?

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