

# Brough Primary School – Curriculum Intention Plan 2021 - 2022



<b>Subject:</b> Computing <b>Year Group:</b> Year 5		<b>Area of learning:</b>  Data and information – Spreadsheets NCCE
Links to previous work/Remember when	Tables, charts, data logging	
<b>Term</b>	<b>Year</b>	<b>Key Skills to be taught</b>
<b>Summer 1 (Cycle B) 2022</b> What the children should know at the end of this series of lessons	Y5	This unit introduces the learners to spreadsheets. They will be supported in organising data into columns and rows to create their own data set. Learners will be taught the importance of formatting data to support calculations, while also being introduced to formulas and will begin to understand how they can be used to produce calculated data. Learners will be taught how to apply formulas that include a range of cells, and apply formulas to multiple cells by duplicating them. Learners will use spreadsheets to plan an event and answer questions. Finally, learners will create charts, and evaluate their results in comparison to questions asked.

**Vocabulary:**

**data, spreadsheet, format, cell, output, calculations, operations, duplicate, multiple, formula, organise.**

Sequence of learning	Objectives and suggested details provided by the subject leader.
1	<p><u><b>Lesson 1 What is a spreadsheet?</b></u></p> <p><a href="https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-1-what-is-a-spreadsheet">https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-1-what-is-a-spreadsheet</a></p> <p>Learning objectives</p> <p>To create a data set in a spreadsheet</p> <ul style="list-style-type: none"> <li>● I can collect data</li> <li>● I can suggest how to structure my data</li> <li>● I can enter data into a spreadsheet</li> </ul>
2	<p><u><b>Lesson 2 Modifying spreadsheets</b></u></p>

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	<p><a href="https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-2-modifying-spreadsheets">https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-2-modifying-spreadsheets</a></p> <p>Learning objectives</p> <p>To build a data set in a spreadsheet</p> <ul style="list-style-type: none"><li>● I can explain what an item of data is</li><li>● I can choose an appropriate format for a cell</li><li>● I can apply an appropriate format to a cell</li></ul>
3	<p><u><a href="#">Lesson 3 What's the formula?</a></u></p> <p><a href="https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-3-what-s-the-formula">https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-3-what-s-the-formula</a></p> <p>Learning objectives</p> <p>To explain that formulas can be used to produce calculated data</p> <ul style="list-style-type: none"><li>● I can explain which data types can be used in calculations</li><li>● I can construct a formula in a spreadsheet</li><li>● I can identify that changing inputs changes outputs</li></ul>
4	<p><u><a href="#">Lesson 4 Calculate and duplicate</a></u></p> <p><a href="https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-4-calculate-and-duplicate">https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-4-calculate-and-duplicate</a></p> <p>Learning objectives</p> <p>To apply formulas to data</p> <ul style="list-style-type: none"><li>● I can calculate data using different operations</li><li>● I can create a formula which includes a range of cells</li><li>● I can apply a formula to multiple cells by duplicating it</li></ul>

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5	<p><u><b>Lesson 5 Event planning</b></u></p> <p><a href="https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-5-event-planning">https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-5-event-planning</a></p> <p><b>Learning objectives</b></p> <p><b>To create a spreadsheet to plan an event</b></p> <ul style="list-style-type: none"><li>● I can use a spreadsheet to answer questions</li><li>● I can explain why data should be organised</li><li>● I can apply a formula to calculate the data I need to answer questions</li></ul>
6	<p><u><b>Lesson 6 Presenting data</b></u></p> <p><a href="https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-6-presenting-data">https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets/lesson-6-presenting-data</a></p> <p><b>Learning objectives</b></p> <p><b>To choose suitable ways to present data</b></p> <ul style="list-style-type: none"><li>● I can produce a chart</li><li>● I can use a chart to show the answer to questions</li><li>● I can suggest when to use a table or chart</li></ul>

## **Learning Outcome/product**

This unit progresses students' knowledge and understanding of data, and teaches them how to organise and modify data within spreadsheets. Specifically, learners will have experienced data in tables and charts in the Y4 data logging and Y5 branching database units.

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

## End of unit assessment question

Which of these statements are true about spreadsheets? (Tick all that apply)

When using formulas with cell references, changing one cell can change another

Calculations can be used on any data type in a spreadsheet

Data can be calculated using different operations within the spreadsheet

Charts can be produced using the data held in spreadsheets

What does this operator mean in a spreadsheet / ?

Which of these would make suitable column headings in a spreadsheet for a local supermarket? (Tick all that apply)

Cost

£4.62

Apples

Item

What does this SUM function calculate?

=SUM(A1:A4)