

Brough Primary School – Curriculum Intention Plan 2021 - 2022



Subject: Computing Year Group: Year 1/2		Area of learning: Programming using Scratch Jr (Y1 iPads)	
Links to previous work/Remember when	<ul style="list-style-type: none"> • Giving instructions in sequence in EYFS • Written instructions for making a healthy sandwich 		
Term	Year	Key Skills to be taught	
Spring 1 (Cycle B) 2022 What the children should know at the end of this series of lessons	Y1/2	Open the ScratchJr app and start a new project Add new characters and backgrounds Use blocks for movement in different directions Create short sets of sequenced instructions	

Vocabulary

programme, debug, repetition, instructions, algorithms, sequencing

Sequence of learning	Objectives and suggested details provided by the subject leader.
1	<p><u>Cool Characters</u></p> <p>To understand that programs execute by following precise and unambiguous instructions.</p> <p>To use logical reasoning to predict the behaviour of simple programs.</p> <p>Children see a demonstration of a ScratchJr program being created that follows precise instructions. During the sequence, they predict what will happen and afterwards begin adding or editing their own characters and backgrounds.</p> <ul style="list-style-type: none"> • I can describe and use instructions to program a character. <p>https://www.scratchjr.org/teach/activities/run-a-race</p>

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	Run a race Steps 1-3
2	<p><u>Grow and Shrink</u></p> <p>To understand that programs execute by following precise and unambiguous instructions. To create and debug simple programs.</p> <p>Children create new projects incorporating the programming blocks for grow and shrink, connecting them in sequence.</p> <ul style="list-style-type: none"> • I can programme a character to grow and shrink.
3	<p><u>Time to Move</u></p> <p>To understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. To create and debug simple programs. To use logical reasoning to predict the behaviour of simple programs.</p> <p>Children use the context of an animated car (or cars) travelling along a road on a city background. Movement blocks are combined with blocks to change speed, iterations or repetition to program the cars.</p> <ul style="list-style-type: none"> • I can use instructions to make characters move at different speeds and distances.
4	<p><u>Repeat</u></p> <p>To understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. To create and debug simple programs. To use logical reasoning to predict the behaviour of simple programs.</p> <p>In the context of a spaceman’s movement floating in space, children use the REPEAT FOREVER block and then the REPEAT block in order to create repetition of an instruction sequence.</p>

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	<ul style="list-style-type: none"> • I can use a repeat instruction to make a sequence of instructions run more than once.
5	<p><u>Sounds</u></p> <p>To understand what algorithms are, how they are implemented as programs on digital devices and that programs execute by following precise and unambiguous instructions. To create and debug simple programs.</p> <p>Children record animal sounds and then create simple programs to play the recorded sound, when the animal is clicked.</p> <ul style="list-style-type: none"> • I can create programs that play a recorded sound.
6	<p><u>Sequencing</u></p> <p>To understand that programs execute by following precise and unambiguous instructions. To create and debug simple programs. To use logical reasoning to predict the behaviour of simple programs.</p> <p>Children use a given background and character(s) to create sequences of linked instructions with increasing complexity.</p> <ul style="list-style-type: none"> • I can create programs with a sequence of linked instructions.

Learning Outcome/product

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Use different end blocks, including repeat forever;
Change the size of characters to grow or shrink;
Hide and show characters with an instruction block;
Programme two or more characters with instructions at the same time.

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

End of unit assessment question

What are instructions?
What is a sequence?
What does it mean to programme?