



Medium-Term Planning

Subject: Computing



Term and Year:	Spring Term, second half 2022
Teacher:	Mr. Churchill
Subject:	Computing
Key Themes:	Programming
Memorable Experience:	
Vocabulary that will be taught:	Micro-bit code algorithm command
<u>National Curriculum Objectives:</u> <u>Key Stage Two:</u> <ul style="list-style-type: none">• use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content• 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• use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	
<u>Computing Skills that will be taught and assessed:</u> <ul style="list-style-type: none">• Independently and with due regard for safety, search the internet using a variety of techniques to find a range of information and resources on a specific top• Use appropriate methods to validate information and check for bias and accuracy.• Independently solve a problem by planning and carrying out data collection, by organising and analysing data involving complex searches using a database, and by drawing conclusions and presenting findings.• The need for accuracy is demonstrated and strategies for spotting implausible data are evident.	
Focus of each lesson 'Can I...' Statement(s)	Activities/Key points

Lesson 1	<p><u>Learning Objective:</u></p> <p>Can I experiment with Micro-bit?</p> <p><u>Success Criteria:</u></p> <p>I can design, write and debug programs that accomplish specific goals. I can use sequence, selection, and repetition in programs.</p>	Children to be introduced to BBC Mirco-bit. The children will learn how to use this online program to create a code for a desired outcome.
Lesson 2	<p><u>Learning Objective:</u></p> <p>Can I program an animation?</p> <p><u>Success Criteria:</u></p> <p>I can design, write and debug programs that accomplish specific goals. I can solve problems by decomposing them into smaller parts. I can use sequence and repetition in programs; work with various forms of input and output.</p>	Children will be required to program an animation using Micro-bit.
Lesson 3	<p><u>Learning Objective:</u></p> <p>Can I create a 'polling' program?</p> <p><u>Success Criteria:</u></p> <p>I can I can identify some code blocks I can predict what a block/program does I can explain why/how a program works</p>	Children will use Micro-bit to create a polling program which will record how happy, sad etc about a topic.

Lesson 4	<p><u>Learning Objective:</u></p> <p>Can I create a program?</p> <p><u>Success Criteria:</u></p> <p>I can I can recognise code blocks. I can decompose a program. I can debug a program.</p>	<p>Children will use Micro-bit to program a pedometer.</p>
Lesson 5	<p><u>Learning Objective:</u></p> <p>Can I create a program?</p> <p><u>Success Criteria:</u></p> <p>I can I can recognise code blocks. I can decompose a program. I can debug a program.</p>	<p>Children will use Micro-bit to program a scoreboard.</p>