

Department:	Computing
Scheme of Learning Number:	3
Scheme of Learning Title:	Micro:bit Programming
Key Learning:	<p>Students will learn how to use a BBC micro:bit for all sorts of cool creations, from robots to musical instruments – the possibilities are endless. The device has a lot of features, like 25 red LED lights that can flash messages. There are two programmable buttons that can be used to control games or pause and skip songs on a playlist.</p> <p>Students will learn about programming through using the device. Students will be given a range of challenges to complete to begin writing code.</p> <p>Students will be given the opportunity to try using a block based language or a text-based programming language.</p>
Assessment:	Assessment will be an online assessment which will include multiple choice questions, scenarios and comparisons at the end of the scheme of learning. Students will be assessed throughout the project, through marking, peer assessment and self-assessment.
Key Words:	<p><b>Loop</b> – is a sequence of instructions that is continually repeated until a certain condition is reached</p> <p><b>If statement</b> – is a programming conditional statement that, if proved true, performs a function or displays information.</p> <p><b>Variable</b> – is a location capable of storing temporary data within a program. This data can then be modified, stored, or displayed whenever needed.</p> <p><b>String</b> – any series of characters that are interpreted literally by a script. For example, "hello world"</p>
Useful Websites:	<a href="https://www.microbit.co.uk/">https://www.microbit.co.uk/</a>
Ways to Support Your Child at Home:	Ask your child to show you what they have been doing in lessons through the micro:bit website. Ask them to show you how to program a basic code such as; making a smiley face or adding text to a micro:bit