

Subject: Computing COMPUTER SCIENCE-	Year group: Year 4	Topic: MICROBIT	Initiation & activation activities:
<p>Prior knowledge required: To know what an algorithm is. Know that programs are made up of a sequence of codes. To be able use these codes or instructions to control devices or objects on screen. To know how to block sections of code together e.g Scratch</p>		<p>Vocabulary: Block code, sensors, input, output, measure, sound wave, lights, wavelength</p>	<p>Produce step counters, flashing animals, play rock, paper scissors with a peer.</p>
<p>Programme of Study: Year 1 &amp; 2</p> <p>Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>● understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions</li> <li>● create and debug simple programs</li> <li>● use logical reasoning to predict the behaviour of simple programs</li> <li>● use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>● recognise common uses of information technology beyond school</li> <li>● use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</li> </ul>			
<ul style="list-style-type: none"> <li>● Implementation</li> </ul> <p>Knowledge skills and understanding</p> <ul style="list-style-type: none"> <li>● Can they explain how block coding works?</li> <li>● Can they detect errors in a program?</li> <li>● Can they use the Microbit to control a number of events?</li> <li>● Can they use the Microbit to produce sound and lights?</li> <li>● Can they use 'what if' questions by planning different scenarios for controlled devices?</li> <li>● Can they use input from sensors to trigger events?</li> <li>● Can they check and refine a series of instructions?</li> <li>● Can they produce their own pattern of music?</li> </ul> <p>Greater Depth</p> <ul style="list-style-type: none"> <li>● Can they use the school radio wavelength to join two Microbits?</li> <li>● Know how computing is diverse</li> </ul>			

IMPACT	ASSESSMENT