COMPUTING – Year 1 – Spring Term REVISED



## SPRING 1 – PROGRAMMING 1 - ALGORITHMS SPRING 2 – PROGRAMMING 2 – PROGRAMMING BEEBOTS

## Prior Learning

## EYFS OBJECTIVES COVERED Y1 MOUSE SKILLS AND ALGORITHMS UNITS COVERED

Key vocabulary for this unit

SPRING 1 – PROGRAMMING 1 – ALGORITHMS UNPLUGGED	SPRING 2 – PROGRAMMING 2 – PROGRAMMING BEEBOTS
Algorithm Automatic	Algorithm Artificial intelligence
Bug Chunks	Bee-Bot
Clear	Clear Code Debug
Code Debug	Demonstration Filming
Decompose Decomposition	Inputting
Device Directions	Instructions
Input Instructions	Pause Precise
Manageable Motion	Predict
Order Organise	Program
Output	Tinker
Precise Programming	Video Video recording

Problem Robot Sensor Sequence Solution Specific Steps Tasks Virtual	Assistant	
Learning Sequence		
SPRING 1 Lesson 1: What is an algorithm?	<ul> <li>To understand what an algorithm is</li> </ul>	
Lesson 2: Algorithm pictures	To follow instructions precisely to carry out an action	
Lesson 3: Virtual assistants	<ul> <li>To understand that computers and devices around us use inputs and outputs</li> </ul>	
Lesson 4: Step by step	To understand and be able to explain what decomposition is	
Lesson 5: Debugging directions	To know how to debug an algorithm	
Lesson 5: Rocket launching	<ul> <li>To test a design and record data.</li> </ul>	
SPRING 2 – PROGRAMMING 2 – PROGRAMMING BEEBOTS	To explore a new device.	

Lesson 1: Getting to know a Bee-Bot			
Lesson 2: Making a Bee-Bot video	To create a demonstration video.		
Lesson 3: Precise instructions	<ul> <li>To plan and follow a precise set of instructions.</li> </ul>		
Lesson 4: Bee-Bot world	To program a device		
Lesson 5: Three little pigs	To create a program that tells a story.		
Assessment milestones			
SPRING 1		SPRING 2	
<ul> <li>To understand that an algorithm is when instructions are put in an exact order.</li> <li>To understand that decomposition means breaking a problem into manageable chunks and that it is important in computing.</li> <li>To know that we call errors in an algorithm 'bugs' and fixing these 'debugging'.</li> </ul>		<ul> <li>To understand the basic functions of a Bee-Bot.</li> <li>To know that you can use a camera/tablet to make simple videos.</li> <li>To know that algorithms move a Bee-Bot accurately to a chosen destination.</li> </ul>	