YEAR 1 1.4 - Programming, Coding & Robotics

Computing Area	Computer Science
National Curriculum Strands	 Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs
Skills Progression Points	 By the end of unit, pupils should be able to: Give instructions to a friend and follow their instructions to move around a space. Describe what happens when buttons are pressed on a robot Press buttons in the correct order to make a robot follow a sequence Begin to predict what will happen for a short sequence of instructions Understand what an algorithm is and be able to create a simple algorithm
Hardware	Beebots, iPads
Software/App	Beebot app, Beebot simulator: https://www.terrapinlogo.com/emu/beebot.html
Unit Objective	To control both physical and virtual robots with a sequence of commands.
Unit Vocabulary	Beebot, forward, backwards, right, left, turn, program, algorithm, clear