

Subject: Computing	Year group: Year 3	Topic: Algorithms	Initiation & activation activities:
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.		Vocabulary:	
Programme of Study: Year 3 & 4	Implementation:	Impact –lesson sequence:	Evaluations and assessments:
<ul style="list-style-type: none"> • Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems: solve problems by decomposing them into smaller parts. • Use sequence, selection, and repetition in programs: work with variables and various forms of input and output. • Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. 	<p style="text-align: center;">Scratch – Animation</p> <ul style="list-style-type: none"> • Navigate the Scratch programming environment. • Create a background and sprite for animation • Change background after a specific time. • Add inputs to control their sprite. • Change position of sprite on screen <p><u>Knowledge skills and understanding</u></p> <ul style="list-style-type: none"> • Can they experiment with variable to control models? • Can they use 90 degree and 45 degree turns? • Can they give an on-screen robot directional instructions? • Can they draw a square, rectangle and other regular shapes on screen, using commands? • Can they more complex programs? <p><u>GD</u></p> <p style="text-align: center;">Logo</p> <ul style="list-style-type: none"> • Write a simple program in Logo to produce a line drawing. • Use more advanced Logo programming, including pen up, pen down etc. • Write a program to reproduce a defined problem, e.g. geometric shape/pattern. 		