

Lyng Primary School Knowledge Organiser Information Technology



Topic: IT	Logo	Year 3	Autumn 1
	S	1 0 0 11	, (ataiiii

Aims of this unit

- 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.
- Create and debug an algorithm
 - > Using the move, rotate and repeat commands
 - Draw regular polygons
 - Using pen up and pen down
 - Draw shapes
 - > Draw regular polygons and patterns

Outcomes

All children

Create and debug algorithms to draw regular polygons using the repeat command/block

Most children

- Draw shapes with spaces between using penup and pendown
- Change and alter pen settings (Scratch)

Some children

- Draw regula polygons using Logo to calculate the angle (Turtle Logo)
- Create and debug algorithms to draw patterns by repeating regular polygons (Scratch)

Agreed outcome:



Programming Turtle Logo and Scratch

What Goldilocks and Step On words will I use?

	and the state of the
Spelling	Defintion
Algorithm	A set of instructions that will reach a desired outcome.
Logo	A text-based coding language used to control an onscreen turtle to create a pattern.
ВК	Move backwards a distance of units.
FD	Move forward a distance of units.
RT	Turn right a number of degrees.
LT	Turn left a given number of degrees.
Repeat	Repeat a set of instructions a specified number of times.
Code block	A group of commands that are joined together and are run when a specific condition is met or when an event occurs
PU/PD	Lift the pen up or down on the screen.

In this unit...

Turtle Logo will be used to teach children how to move and draw using the turtle on screen, and then further develop algorithms using the 'repeat' command. These skills will then be transferred to teaching children how to use blocks in Scratch.

