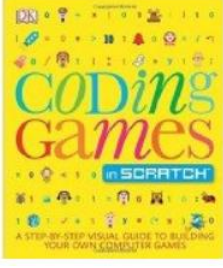
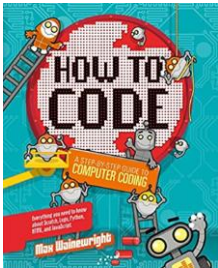






Curriculum Coherence – Year 4 Computing

Term 3 Programming - LOGO

Previous Learning: Chn have programmed using block based code and created their own algorithms.

INTENT	IMPLEMENTATION	IMPACT
<p>KNOWLEDGE Programming -Chn will understand the language of Logo and input simple instructions into Logo. - Use Logo to create a series of different 2D and rectilinear shapes (Maths Objective Link) - Understand the 'repeat' function to create shapes efficiently. - Use build procedures within Logo. - Understand how to use the language of code and compare it to block code.</p> <p>VOCABULARY Code, program, debug, algorithm, Turtle, block based code, text based code, pen up, pen down, command, repeat, decomposition, angles, degrees</p>	<p>ACTIVITIES Creating an effective animation Lesson 1 – WALT: understand the language of LOGO The chn will use LOGO, tinkering to learn the text based language of LOGO. Chn will follow simple instructions and code to program effectively. Lesson 2 – WALT: create shapes in LOGO. The chn will learn how to program and create different shapes within LOGO experimenting with different angles. Lesson 3 – WALT: use the repeat function. Chn will use the repeat function to efficiently create different shapes and predict the outcome from reading different code. Lesson 4 – WALT: use procedures. The chn will experiment with different procedures within LOGO. Chn will create their own procedures to draw shapes. Lesson 5/6 – Chn will explore the Logoators Challenges applying their new skills from the unit.</p>	<p>OUTCOMES Creating an animation PUPILS will know</p> <ul style="list-style-type: none"> - Common instructions in Logo and how to program them. - How to change the colour of the pen and understand PU and PD commands - How to write text using label commands <p>will be able to</p> <ul style="list-style-type: none"> - Write procedures using simple algorithms - Fill shapes in different colours - Draw arcs and shapes of different sizes <p>will understand</p> <ul style="list-style-type: none"> - The difference between block and text based code - How to predict outcomes using code - Efficient ways to code using different functions.
<p>SKILLS</p> <ul style="list-style-type: none"> • Logic – to predict and analyse • Make steps and rules for their algorithms • Evaluate their own and others' code to help improve their design • Abstraction – remove unnecessary detail to solve a problem • Patterns – spotting patterns and similarities • Decomposition – Breaking problems down into parts • Tinkering – experimenting and playing • Creating – design and make new patterns and designs 	   	<p>NEXT STEPS IN LEARNING</p> <p>Chn will revisit coding and move into Java and Python coding.</p>

LINKS
Maths – Angles, Position and direction. 2D Shapes