

Medium Term Plan: Supporting Implementation of LTP/Progression Grid

Subject: Computing – Programming Animations		Year: A – Phase 1 – Unit 4/5
NC/PoS: <ul style="list-style-type: none">– Understand algorithms as clear, ordered instructions.– Create and debug simple programs.– Use logical reasoning to predict the behaviour of simple programs.		
Prior Learning (what pupils already know and can do) <ul style="list-style-type: none">– Pupils have experience with basic programming concepts (e.g. sequencing commands for Bee-Bots).– Familiarity with instructions and the concept of input-output relationships.		
End Points (what pupils MUST know and remember) <ul style="list-style-type: none">– Create simple animations using ScratchJr.– Use and modify programming blocks to control sprites.– Design and follow instructions to solve problems.		
Key Vocabulary instruction, sprite, block, command, sequence, background, debug.		
Recommended Resources: <ul style="list-style-type: none">– Hardware: Tablets or laptops with ScratchJr installed.– Software: ScratchJr application.– Other Resources: Algorithm design sheets, sprite storyboards. <i>Unplugged activities provide possible opportunities for the children to record.</i>		
Curriculum Connections: <ul style="list-style-type: none">– Maths: Understanding sequences and predicting outcomes.– Art: Designing sprites and backgrounds.– English: Oracy and presenting ideas		
Career Opportunities: <ul style="list-style-type: none">– Animator: Understanding sprite movements and designs.– Game Designer: Creating interactive animations and games.		
Session 1: Exploring ScratchJr		
Objective: To navigate and use basic features of ScratchJr. Digital Activity: Explore ScratchJr interface, move sprites using simple commands. Unplugged Activity: Pupils role-play as sprites, following instructions on a pre-designed grid.		
Key Vocabulary: Sprite, command, sequence.		
Session 2: Joining Commands		
Objective: To understand how to join blocks to create simple animations. Digital Activity: Create a sequence of joined blocks to move a sprite across the screen. Unplugged Activity: Use command cards to design and test sequences with peers acting as sprites.		
Key Vocabulary: Block, join, sequence.		
Session 3: Adjusting Values		
Objective: To modify block values to control sprite movements. Digital Activity: Experiment with changing step values to change sprite movement. Unplugged Activity: Use measuring tools to simulate sprite steps on paper grids.		
Key Vocabulary: Value, change, measure.		
Session 4: Designing with Sprites		
Objective: To add and program multiple sprites.		

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Digital Activity: Program two sprites to interact on-screen.

Unplugged Activity: Design and describe interactions between characters using cutouts.

Key Vocabulary: Sprite, interaction, design.

Session 5: Planning a Project

Objective: To create an algorithm for an animated story.

Digital Activity: Plan and program a "Space Race" story using ScratchJr.

Unplugged Activity: Storyboard a set of instructions for a scene using paper templates.

Key Vocabulary: instruction, storyboard, background.

Session 6: Presenting Animations

Objective: To share and reflect on completed projects.

Digital Activity: Present animations and discuss the process with peers.

Unplugged Activity: Write and illustrate a reflection on the animation process.

Key Vocabulary: Present, reflection, debug.

Future learning this content supports:

- Developing conditional logic and loops in KS2.
- Building more complex interactive programs.