

Medium Term Plan: Supporting Implementation of LTP/Progression Grid

Subject: Computing – Selection in Quizzes	Year: A – Phase 3 – Unit 2/4
NC/PoS: <ul style="list-style-type: none"> – Design, write, and debug programs that accomplish specific goals. – Use selection to control the flow of actions in programs. 	
Prior Learning (what pupils already know and can do) <ul style="list-style-type: none"> – Familiarity with Scratch and basic programming concepts. – Understanding of selection and conditions from prior physical computing units. 	
End Points (what pupils MUST know and remember) <ul style="list-style-type: none"> – Use the "if...then...else" structure to guide program outcomes. – Design and implement a quiz program using Scratch. – Debug and refine quiz programs based on feedback. 	
Key Vocabulary Selection, condition, true/false, program flow, algorithm, debug.	
Recommended Resources: <ul style="list-style-type: none"> – Hardware: Laptops or tablets with Scratch installed. – Software: Scratch (online or offline). – Other Resources: Quiz design templates and example algorithms <i>Unplugged activities provide possible opportunities for the children to record.</i>	
Curriculum Connections: <ul style="list-style-type: none"> – English: Designing and testing quiz questions. – Maths: Logical reasoning to structure program flow 	
Career Opportunities: <ul style="list-style-type: none"> – Game Developer: Programming interactive applications. – Educator: Designing digital tools for learning assessments. 	
Session 1: Exploring Conditions Objective: To identify and modify conditions in a program. Digital Activity: Experiment with pre-made Scratch programs to change conditions. Unplugged Activity: Role-play "if...then" scenarios with physical actions. Key Vocabulary: Condition, selection, modify.	
Session 2: Selecting Outcomes Objective: To use the "if...then...else" structure in programs. Digital Activity: Create programs with two possible outcomes based on user input. Unplugged Activity: Write algorithms for branching outcomes on paper. Key Vocabulary: Outcome, branching, structure.	
Session 3: Asking Questions Objective: To design algorithms with conditional questions. Digital Activity: Implement a program that uses user responses to control flow. Unplugged Activity: Write branching algorithms with yes/no outcomes. Key Vocabulary: Question, algorithm, flow.	
Session 4: Designing a Quiz Objective: To plan and design a quiz program using selection. Digital Activity: Use Scratch to draft a quiz structure. Unplugged Activity: Complete design templates outlining questions and outcomes.	

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Key Vocabulary: Quiz, plan, design.

Session 5: Testing a Quiz

Objective: To implement and test a quiz program.

Digital Activity: Debug and refine Scratch programs based on peer feedback.

Unplugged Activity: Test algorithms on paper for accuracy and logic.

Key Vocabulary: Debug, test, refine.

Session 6: Evaluating a Quiz

Objective: To evaluate and improve quiz programs.

Digital Activity: Enhance programs based on evaluation criteria and user feedback.

Unplugged Activity: Reflect on quiz designs and present improvements.

Key Vocabulary: Evaluate, improve, feedback.

Future learning this content supports:

- Expanding selection concepts to include variables and complex algorithms.
- Designing interactive storytelling and simulation projects.