YEAR 4 4.3 - Designing a Game in

Scratch Using Repeat Loops

Computing Area	Computer science
National Curriculum Strands	 Design, write and debug programs that accomplish specific goals; solve problems by decomposing them into smaller parts Use sequence in programs; work with variables and various forms of input and output Use logical reasoning to detect and correct errors in algorithms and programs Select, use and combine a variety of software to design and create content that accomplish (es) given goals, including presenting information
Skills Progression Points	 Understand how an algorithm is implemented using a sequence of precise instructions. Can predict the outcome of a sequence of precise instructions. Repeatedly test a program and recognise when they need to debug it. Detect a problem in an algorithm, which could result in a different outcome to the one intended. Understand what inputs and outputs are, how they can be used. Provide examples of how to use inputs and outputs effectively. Designs, writes, executes and debugs programs of increasing complexity that accomplish a specific goal. Use logical reasoning to predict and debug more complex programs including inputs and outputs.
Hardware	iPads/Laptops/Desktop PCs
Software/App	Scratch online
Unit Objective	To design a game in scratch which uses repeat loops
Unit Vocabulary	Sequence, selection, repetition, input, algorithm, programming, debugging, computational thinking, tinker.