

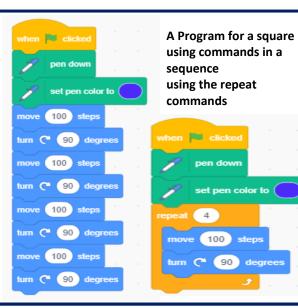
## National Curriculum Links: KS2 Computing

- 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

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CS4.1 I know what a repeat is	CS4.5 I can detect and debug errors in algorithms and programs.
CS4.2 I know that a repeat is used to repeat a set of instructions	CS4.6 I can transfer my coding skills between software
CS4.3 I can use repeats in programs confidently	CS4.7 I can explain why it is important to use the repeat function in a particular place in my
CS4.4 I can independently select repeat and sequence code to make my own program	sequence

# **Computer Science Vocabulary**

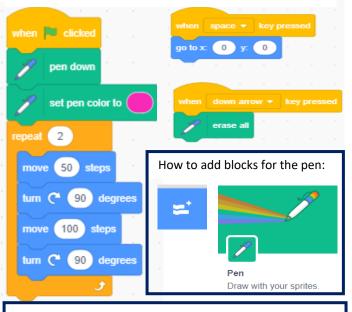
computer science computational	BBC Bitesize Computing KS2 computer scientists design new software, solve computing problems and develop different ways to use technology involves looking at a problem and working out a
thinking	way a computer might be able to help you solve it
algorithm	a set of instructions in everyday language, e.g 'get ready for school', 'go out to play'
program	a precise set of instructions for a computer
sequence	a program with a number of steps in the right order
repeat	recognising patterns within a program that can be repeated
decompose	breaking a program down into smaller steps
debugging/ deglitching	Identifying and correcting mistakes when the program doesn't work as expected
abstraction	being able to focus on the problem and ignoring detail, focus on program before look and feel e.g. colour, size, background
Input / output	data or information that a computer receives in or displays out
unplugged	computer science without using the computer
event blocks	all programs need an event which acts like a start button
mathematical language	Directional language- backward, left, right, angles, clockwise / Anti-clockwise



### Program for pentagon using repeat.



#### Program for rectangle using repeat



#### Program for 'Spirograph' using repeat – hexagon

