

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

• I know what a **repeat** is

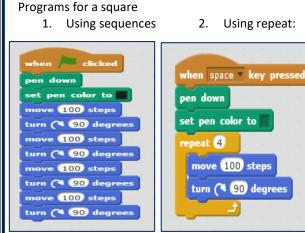
- I know that a repeat is used to repeat a set of instructions
- I can use repeats in programs confidently
- I can independently select repeat and sequence code to make my own program.

Computer Science Vocabulary

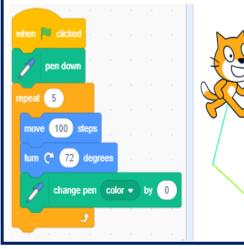
| <u>compater science votabulary</u> | |
|------------------------------------|---|
| computer | BBC Bitesize Computing KS2 |
| science | computer scientists design new software, solve |
| | computing problems and develop different ways |
| | to use technology |
| computational | involves looking at 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/ | Identifying and correcting mistakes when the |
| deglitching | 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 | Directional language- backward, left, right, |
| | |

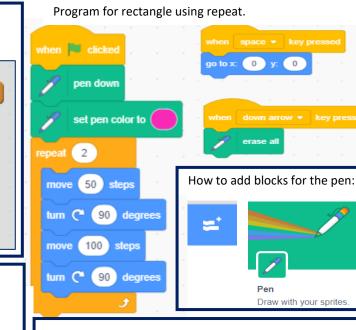
angles, clockwise / Anti-clockwise

language



Program for pentagon using repeat.





• I can detect and debug errors in algorithms and programs.

I can explain why it is important to use repeat in particular place in my sequence

I can transfer my coding skills between software

Program for 'Spirograph' using repeat – hexagon

