

mathematical

language

Knowledge Mat - Computer Science - Year 2 - program

National Curriculum Links: KS1 Computing

- understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug simple programs
- use logical reasoning to predict the behaviour of simple programs
- CS2.1 I can tell you what a program is
- CS2.2 I can tell you what an event is
- CS2.3 I know programs need an event to begin
- CS2.4 I can give and follow instructions, which include direction and turning command - several in order
- **CS2.5** I know that computers need precise instructions
- **CS2.6** I can plan use logical reasoning to predict outcomes
- CS2.7 I can create a program that contains several commands for a device or software programme
- CS2.8 I can debug a program independently that has caused an unexpected outcome
- **CS2.9** I can use different events to start my programs timing / on click / on button press

Computer Science Vocabulary BBC Bitesize Computing KS1 computer Computer scientists design new science software, solve computing problems and develop different ways to use technology. involves looking at a problem and computational thinking working out a 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' a precise set of instructions for a program computer breaking a program down into smaller decompose steps Identifying and correcting mistakes when debugging/ the program doesn't work as expected deglitching being able to focus on the problem and abstraction ignoring detail, focus on program before look and feel e.g. colour, size, background data or information that a computer Input / output receives in or displays out computer science without using the unplugged computer all programs need an event which acts event blocks like a start button

Directional language-backward, left,

right, angles, clockwise / Anti-

clockwise

What is the difference between an algorithm and a program?

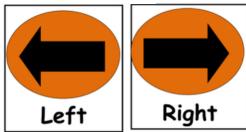
Important:

Always plan your program Then test your program If the out-come was not what you predicted Debug

Re test













When planning your program you need to think about: Where do I want my program to start? What do I want my BeeBot / sprite to do? How many sprites do you need? Does my BeeBot/sprite need to pause, change direction? Input program / test / debug

Use EVENT commands to start your program



SPRITE



Choose background



Add new Sprite

Introduction to Scratch





