How are computer games made?

St. Peter's CE Primary Academy

Coding Y4

Key learning

Year 4 –

- Use Swift Playgrounds to learn about functions.
- Learn how to change and code Sprites and backgrounds in Scratch
- Learn how to use conditionals, loops and functions in Scratch
- Adapt a game to include a function (Slug Trail)
- Create a game using loops, conditionals and functions

Computing skills

Empowered Learner:

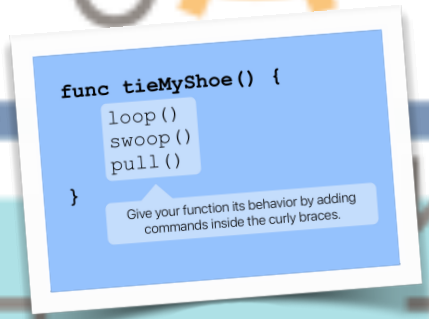
- Set goals to achieve using technology
- Begin t… ov…

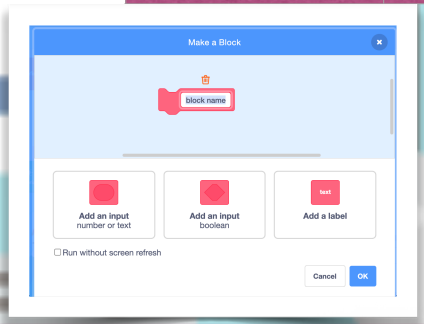
Comput…

- Design… progra…
- Detect … ors i…
- Break p… ve
- Use sea… ach…

Key vocabulary

backdrop	The background in Scratch that you can program
conditionals	These tell a computer to run different codes depending on the conditions
coding	Creating, designing and building a computer program to accomplish a goal
command	An instruction for the computer
for loop	Grouping tasks together and giving them a number of times to run together
function	A set of commands that you name and run together to group tasks automatically
repeat forever	To keep doing a set of commands until the code is stopped
sprite	A character in Scratch that you can program





Coding – Our Learning Journey

Year 1
- Using simple commands to move and change direction
- Editing characters and backgrounds

Year 2
- Using repeat and forever loops
- Put a range of codes together to make a sequence
- Debugging simple programmes

Year 3
- Use commands, for loops and conditionals
- Use different controls and conditionals including when and if
- Use sensors and code them to work in different ways

Year 4
- Create and edit functions
- Include functions in a game on Scratch
- Use logic for conditional commands, including 'else' command

Year 5
- Use comparison and logical operators in a range of programmes
- Create different variables for speed and proximity sensors in robots
- Code sensors for different purposes

Year 6
- Use variables to keep score in a created game
- Create a game using a range of functions, loops, operators and variables
- Begin to use Python to code Micro:Bits