

Year 5 Programming in Scratch Computer Science



Key Words	
inputs	An example of an input are the keyboard arrow keys, which could be programmed to move a sprite.
selection	The sprite can be programmed to make a choice. For example, selecting whether an answer is right or wrong in a quiz.
sensing	A sensing block is triggered when a sprite touches another sprite or a colour.
variables	Something that changes in a program such as score or the speed of a car sprite. They can also be random to make the game more unpredictable.
debug	Find an error in your code and correct it.

What do I already know?

- Know that sprites can be controlled in different ways using keyboard or touch screen inputs.
- Know that sprites can be programmed to sense other sprites or colours then make decisions. (Eg, a car sprite could win the game if it touches a blue finish line or go back to start if it touches the green off the track.)
- Know how to program variables, including data variable that can used to add a scoring system.

Our Learning Steps

1. Scratch maze

Write a program with inputs, movement, selection, sensing and data variables.



2. Scratch virtual robot

Program distance sensing and movement (Virtual Robot).



3. Scratch football

Program Inputs, outputs, loops, selection, sensing and variables.



Program list variables that chooses randomly.



5. Scratch unplugged

Complete unplugged activities to consolidate learning.





