

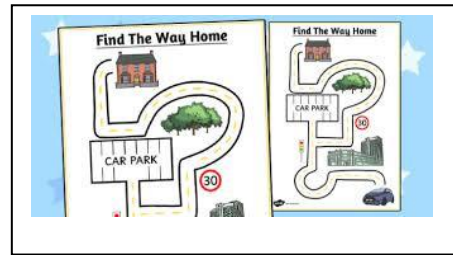
Year 1 Simple Algorithms and Programs Knowledge Organiser

Key words and prior learning from Reception

Sequencing

Following instructions

Controlling a remote-control device



Who uses skills like these?



- Programmers that update Sat Nav systems
- Programmers that create location services and GPS systems

Key Learning

Self-Assessment

	Self-Assessment		
	WT	A	WA
I can explain what an algorithm is			
I can give instructions to complete a task			
I can debug an algorithm			
I can explain what a program is			
I can predict the outcome of a route-based program to control BeeBot			
I can write my own route-based program to control BeeBot			
I can debug my own route-based program to control BeeBot			

New key words we will use in Year 1 Simple Algorithms and Programs Part 1

Algorithm – a set of instructions written in plain English – NOT computer code, that a programmer writes to create instructions that will carry out a specific task.

Debug – find the mistake.

Program – instructions written in a language that a standard computer or device understands which is not a language a human would ever use to communicate with another human.

Physical device – something that can be touched e.g. BeeBot can be touched and programmed to move around a playmat.

Route-based program – uses simple directional commands forwards, backwards, left and right to control movement.

Encode – turn instructions into code for programming.