

What I should know already...

In reception the children will have been taught to complete a simple program on a computer



Key Skills

To follow a set of instructions	Do all the children know left from right? Can they walk forwards and backwards? Can they follow teachers instructions?
What is an algorithm?	Children to explore sets of instructions with their classmates. Can they follow routes and mazes? What goes wrong? How do we debug?
To use the beebots to create an algorithm and debug.	Use the beebots to plan a route, test and debug the route they have done.
I can control motion by specifying the number of steps to travel, direction and turn.	Children to use 2Go level one to create algorithms on screen. Test and debug.
To follow precise instructions	Use maps made by others, write the algorithm, test and debug.

Hardware and software	
Chromebooks	
Beebots	
RM purple mash 2Go	

Key Vocabulary

Motion	Movement of an object.
Control	Give an object instructions to make it move.
Direction	Forwards or backwards.
Turn	Left or right.
Hide	Make an object disappear.
Features	The way an object looks.
Algorithm	A set of instruction given to a computer.
Test	Check the algorithms work.
Debug	Change the algorithms to make the code work.
Loop	To repeat the code.

National Curriculum

The children will:
 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
 Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

Real World

You should be able to write a code to make the Beebot follow a route. You should be able to test and debug the code.
 You should be able to make objects appear and disappear.



Useful websites

- <https://www.thinkuknow.co.uk/> If you want to know more about staying safe online
- www.hursthillprimaryschool.com/unify Hurst Hill unify site to access emails and applications
- www.hursthillprimaryschool.com The school website
- <https://www.purplemash.com/login/> Purple mash login– look up the schools log in page using the post code WV14 9AJ
- <https://www.childnet.com/> SMART rules

Online safety

I can recognise that information can stay online and could be copied.
 I can describe what information I should not put online without asking a trusted adult first.