

St White's Primary School - Computing

Phase: KS1

Topic: Moving a robot



What should I already know about Grouping Data?	Values		Technical vocabulary		
 How to give instructions Some toys are small computers We can give instructions to a computer and it will 	Clear communicati on	Take part in class discussions explaining reasoning clearly	Command	an instruction or signal causing a computer to perform one of its basic functions	
			Predict	To say or estimate that something will happen	
follow them		Explain how to improve your	Outcome	The way a thing turns out	
Unit Overview – What I will be able to do	220	instructions	Device	A thing made for a particular purpose (beebot)	
 Explore early programming concepts Explore using individual commands, both with other learners and as part of a computer program Identify what each floor robot command does and use that knowledge to start predicting the outcome of programs Explore the early stages of program doeign through 	Enthusiastic with a can do attitude	Be optimistic about your success in programming a robot Be resilient when things become difficult	Robot	A machine capable of carrying out a series of actions	
			Instruction	A code which defines and carries out an operation	
			Sequence	An order where things follow one another	
			Program	A series of instructions to control a device	
What will I know by the end of the unit?	Take responsibility both personally and collectively Are reflective	Support others as required to improve Share ideas as requested Be focused on following and giving instruction. Think about what went well and what didn't. Think about how to improve. Think about how you can use the lessons you leamt here, in other areas.			
 Predict the outcome of a command on a device Match a command to an outcome 				Forward 0000000	
Run a command on a deviceFollow an instruction					
Recall words that can be acted out Give directions				Lef Turn	
•Compare forwards and backwards movements					
 Start a sequence from the same place Predict the outcome of a sequence involving forwards and backwards commands Compare left and right turns 				Clear Backword Pouse	
•Experiment with turn and move commands to move a robot •Predict the outcome of a sequence involving up to four		National Curriculum Objec			
commands •Explain what my program should do •Choose the order of commands in a sequence •Debug my program	DECT	Computing • Understand what • devices; and that • Create and debug	algorithms are; I programs execut	how they are implemented as programs on digital e by following precise and unambiguous instructions s	

- •Identify several possible solutions
- •Plan two programs
- •Use two different programs to get to the same place

•Use logical reasoning to predict the behaviour of simple programs •Recognise common uses of information technology beyond school