

St White's Primary School - Computing

Phase: KS1

Topic: Moving a robot



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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 follow them 	Clear communicati on	Take part in class discussions explaining reasoning clearly Explain how to improve your	Command	an instruction or signal causing a computer to perform one of its basic functions	
			Predict	To say or estimate that something will happen	
			Outcome	The way a thing turns out	
Unit Overview – What I will be able to do	200	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 design through the introduction of algorithms What will I know by the end of the unit? Predict the outcome of a command on a device Match a command to an outcome Run a command on a device Follow an instruction Recall words that can be acted out Give directions 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 Experiment with turn and move commands to move a robot Predict the outcome of a sequence involving up to four commands Explain what my program should do Choose the order of commands in a sequence Debug my program 	Enthusiastic with a can do attitude Take responsibility both personally and collectively Are reflective	Be optimistic about your success in programming a robot Be resilient when things become difficult 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 learnt here, in other areas.	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	
			S	Image: Clear Image: Clear	
		1	National Curriculum Objectives Computing •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		
	DECT	•Understand what •devices; and that			

- •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