Fairisle Infant and Nursery School Medium Term Plan





<u>'We have the right to learn</u>" Article 28

<u>'We have the right to be safe'</u> Article 19

'We have the right to be the best we can be' Article 29

Subject: Computing	Year Group: Year 1	Unit: Routes and Trails
Computer Science	Autumn 1	
Learning Objective:	Key Skills and reference to National Curriculum:	Resources:
Inderstand what algorithms	- conjunderational and apply the fundemental principles and	Bee Bots
are, how they are implemented	 can understand and apply the fundamental principles and concepts of computer science, including abstraction, 	Bee Bot mats
as programs on digital devices,	logic, algorithms and data representation	Pictures of places in school
by following precise and unambiguous instructions	 can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems 	Cards with places printed on it.
 Create and debug simple programs 		
 Use logical reasoning to predict the behaviour of simple 	Hook and content:	Cross-curricular links:
 programs Recognise common uses of information technology beyond 	New Year R children don't know their way around the school. We are going to give them instruction of how to get to different places in our school.	Geography: Routes and trails (around the school)
school	Step 1-	Literacy: Verbalising and
Success Criteria: - I can give instructions to my friend and follow their instructions	Teacher to be a robot and children to give teacher instructions on how to get from the smartboard to the classroom door. Teacher follow instructions exactly to refine children's understanding of the need for accurate unambiguous instructions.	

-	I can describe what happens		S&L links:
	when I press buttons on a	Sep 2 –	Give well-structured
	robot	Children to give each other instructions to get to somewhere on	descriptions and explanations
_	I can press the buttons in the	the playaround (or in hall if raining). Children to give accurate	
	correct order to make my robot	algorithms and partner to follow instruction accurately	ESafety: Revise lock it block it
	do what I want		show it tell it at the beginning
	L can describe what actions I	Stop 3	of each sossion
-	will need to do to make	Using clear has bet mate and place in different places in our	or each session.
	will fleed to do to make	school _ children to programme the bee bot to get to different	
	to use the word algorithm	places in the school. Work as a group. Children can	
	Loop bogin to prodict what will	programmo instructions as they go for this sossion (it didn't go	
-	hoppon for a short assumed	for enough so make it as forward a hit more)	
	of instructions	ar enough so make it go forward a bit more)	
		Stop 4	
-	a call begin to use	Continuo as provious sossion but oncourago childron to input	
	soliware/apps to create	their algorithms as one continuous programs. Children may want	
	novement and patterns on a	to have white heards to record instructions as they go so that	
		they can debug them accordingly	
-	I can use the word debug		
	when I correct mistakes	Stop 5	
		Look at a set of algorithms together and talk about what they	
		think is going to happen. Where will the floor robot go?	
		Cive shildren some programs to look at together. Children to	
		Give children some programs to look at together. Children to	
		well and up (write prediction on past it note). Programme the	
		well end up (while prediction on post it note). Programme the	
		bee bot and see if they were correct.	
		Stop 6	
		Step 0 -	
		Give them a set of instructions that get there robot to one part of	
		the school map to another part. Are these algorithms correct?	
		de bugging and correct it	