Computing 24-25 Year 1 – Programming Beebots 22-23				
By the end of the unit children must:		backwards		
- move the Beebot forwards, backwards and turn.		clear forwards		
- be able to move a Beebot to a given area.		go ipad		
execute by following precise and - Create and debug simple progr	e; how they are implemented as programs on digunambiguous instructions. ams. the behaviour of simple programs. Software	gital devices; and that programs		
beebots beebot app blubot app				
Title / Focus	Lesson outline			
Lesson 1- Buttons	Learners will be introduced to floor robots. The	ey will talk about what the buttons on		
LO- To explain what a given command will do	floor robot might do and then try the buttons out. They will spend time linking an outcome to a button press. Learners will consider the direction command buttons, a well as the 'clear memory' and 'run program' buttons.			
SK Move the Beebot forwards, backwards and turn Be able to move a Beebot to a given area.	Discuss with children that Beebots follow a range of directions. Speak about directions which you could go, left, right, forwards, backwards. Children to go onto the playground/hall and work in pairs to play Simon Says following the directions forwards and backwards and how many paces. Once this is mastered move onto left and right.			
Lesson 2 Directions	Learners will think about the language used to	give directions and how precise it		
LO- To act out a given word SK Move the Beebot forwards,	needs to be. They will also work with a partner to give and follow instructions. Thes real-world activities should, at suitable points during this lesson, be related to the floor robot			
backwards and turn. - Be able to move a Beebot to a given area.	Children to understand that an algorithm is a set of instructions. Children to have a route set on a grid and they must select the correct instructions for the Beebot to reach its destination.			
Lesson 3- Routes LO- To create a route for the beebot	Learners will be encouraged to plan routes around a mat before they start to write programs for those routes. The activities in this lesson also introduce the concept of there being more than one way to solve a problem. This concept is valid for a lot of			
Make map for Beebot SK Move the Beebot forwards, backwards and turn Be able to move a Beebot to a given area.	programming activities: the same outcome ca different approaches, and there is not necessarintroduces the idea of program design, where their program to achieve before they start program	arily a 'right' approach. The lesson als learners need to plan what they want gramming.		
	Children to make a mat on squared paper for instructions.	a Beebot to travel and write a set of		
Lesson 4- Ipads	Children to program the Beebots to follow the	r instructions. Children to use the		
LO- To use the Beebots and the Beebot program on the iPad SK Move the Beebot forwards, backwards and turn Be able to move a Beebot to a given area.	Beebot program.			

End of Unit Assessment Working at Age related expectations Working at a greater depth

given area.

Working towards
