BILSTON CHURCH OF ENGLAND PRIMARY



MEDIUM TERM PLANNING

Right

Prediction

Subject	Topic/Key Question	Year Group	Term	Time Allocation 6 hours
Computing	Algorithms (Bee Bots)	2	Spr 1	
Software/App —	Bee Bots / Blue Bots / Blu	e Bot app on I pads		
Pa Vocabulary		•	Artwork	
 Instructions 			Design	
 Sequence 			Route	
 Clear 			Mat	
 Unambiguous 			Algorithm	
 Program 		•	Debugging	
 Bee bot 		•	Decomposition	
 Forward 				
 Backward 				
Left				

Lesson Sequence	Time Allocation	Key Question/ WALT	Teaching Activities	Resources
Lesson 1	1 hour	WALT: follow and give clear instructions	Activity 1: You can assess whether learners can follow instructions to create a drawing. Activity 2: You can assess whether learners can think of instructions that can and cannot be enacted by another learner. Activity 3: You can assess whether learners can select appropriate instructions from the class list and issue those instructions clearly for another learner to follow. Activity 4: You can assess whether learners can issue two or three appropriate instructions at a time. You can also assess whether learners enacting instructions only do as instructed and do not act until a "Go" command is given.	Bee Bots Blue Bots i-pads with Blue bot app Floor mats Resources for lesson 1 in teams folder from teach computing
Lesson 2	1 hour	WALT: use the same instructions to create different algorithms	Activity 1: You can assess whether learners can create four algorithms using only the commands provided. Activity 2: You can assess whether learners can enter their algorithms as programs on the floor robot and record where the robot stops after it has executed each program.	Bee Bots Blue Bots i-pads with Blue bot app Floor mats Resources for lesson 2 in teams folder from teach computing
Lesson 3	1 hour	WALT predict the outcome of a sequence	Activity 1: You can assess whether learners can move the paper-bot according to the algorithms and identify the outcome of each. Activity 2: You can assess whether learners can enter the algorithms as programs on a floor robot and compare the robot's stopping square to their prediction. Activity 3: You can assess whether learners can follow a randomly produced program and predict what its outcome will be.	Bee Bots Blue Bots i-pads with Blue bot app Floor mats

				Resources for lesson 3 in teams folder from teach computing
Lesson 4	1 hour	WALT: create a mat for a programmabl e device	Activity 1: You can assess whether learners can think of six pictures related to a theme and draw them in suitable squares on a mat. Activity 2: You can assess whether learners can plan and test two algorithms that move the robot between squares that they have selected. Activity 3: You can assess whether learners can add obstacles to their mats in suitable squares.	Bee Bots Blue Bots i-pads with Blue bot app Floor mats Resources for lesson 4 in teams folder from teach computing
Lesson 5	1 hour	WALT: use an algorithm to create a program	Activity 1: You can assess whether learners can select a 'start' and 'end' square and plan a route between the two. Activity 2: You can assess whether learners can draw an algorithm for the route that they have identified. Activity 3: You can assess whether learners can test their algorithm as a program on the floor robot.	Bee Bots Blue Bots i-pads with Blue bot app Floor mats Resources for lesson 5 in teams folder from teach computing
Lesson 6	1 hour	WALT: debug parts of a program	Activity 1: You can assess whether learners can identify the bugs in the given algorithms. Activity 2: You can assess whether learners can select two squares on the mat for the robot to visit. Activity 3: You can assess whether learners can design and test two programs that move the robot between two squares on the mat. Activity 4: You can assess whether learners can combine two tested programs into one larger program.	Bee Bots Blue Bots i-pads with Blue bot app Floor mats

	Resources for lesson 6 in teams folder from
	teach computing