

EXTREME STEAM SCIENCE - BLOCKLY CHECKLIST - LESSON 13

Now that the campers have experience with all of the Blockly codes, see if they can write a program including all of these commands. Their programs can be anything that they would like as long as they incorporate at least one of each of these commands here. This challenge will solidify all the Blockly skills that the students have acquired through completing the Blockly lessons. The younger campers can use as many commands as they feel comfortable with. Determine the number of commands to be used based on the individual camper's ability. We want them to feel confident and achieve success.

	Blockly Checklist	Objective
1	Drive forwards 60cm at normal speed.	
2	Drive backwards 30cm at normal speed	
3	Turn left 90 degrees	
4	Turn right 90 degrees	
5	Turn 180 degrees in either direction	
6	Turn right 45 degrees	
7	Turn left 60 degrees	
8	Look left 30 degrees	
9	Look right 90 degrees	
10	Look up 20 degrees	
11	Look down 7 degrees	
12	Look towards voice	
13	Control all lights	
14	Control individual ear lights at different times	
15	Change the eye pattern	
16	Have Dash make any sound	
17	Record your own sound and have Dash replay it	
18	Make Dash wait for 3 seconds	
19	Make Dash wait until the top button is pressed	
20	Use a repeat block that repeats commands 3 times	
21	Use a repeat block that repeats until Dash is picked up	
22	Use an if block that makes Dash turn right if it hits a wall	
23	Use an "if else" block that will make dash turn left if there is something in front of him but if not, drive forwards	