Engineering Science @ Forfar Academy | Flowcharts

Challenge #3—Toy Train

A toy shop owner has asked for your assistance to develop a program which will carry out the sequence shown on the right.

Pin Out Diagram:

Input connection	Pin	Output connection
	7	train motor
	6	points
	5	green signal
	4	red signal
	3	
	2	
	1	
	0	

Flowchart:

Start

Step	Process
1	*Switch the green signal on*
2	*Switch the train on for 30seconds*
3	*Stop the train*
4	*Switch the green signal off and the red signal on*
5	*Switch the points on*
6	*Switch the train on for 30 seconds*
7	*Stop the train*
8	*Switch the points off*
9	*Switch the red signal off and the green signal on*
10	*Jump back to step 2*

Marks Gained:

_____
15

Student comments:

Teacher comments: