

**Robokid**  
PLUGGED INTO TECHNOLOGY

## Activity 2 worksheet - Navigate

**Aim :** Experiment with simple robot vehicle steering.

### Task

1. Connect cable and switch controller to robot
2. Set your switch controller switches to the OFF position (see picture).
3. Power-on the robot and select MODE "J1" by pressing "2A\_D\_A" (press switch A twice, switch D once and switch A once.)
4. Now run the robot to work out the effect of the controlling switches.
5. The two switches on the controller each have 3 positions which give NINE possibilities. Fill in table 1 below with the NINE possibilities using the symbols in table 2.

right switch →			
left switch ↓			
	OFF		

Table 1: Nine possible switch controller positions

Effect	Symbol
Slow forward	
Fast forward	
Spin left or right at slow speed	
Spin left or right at fast speed	
Turns left or right	

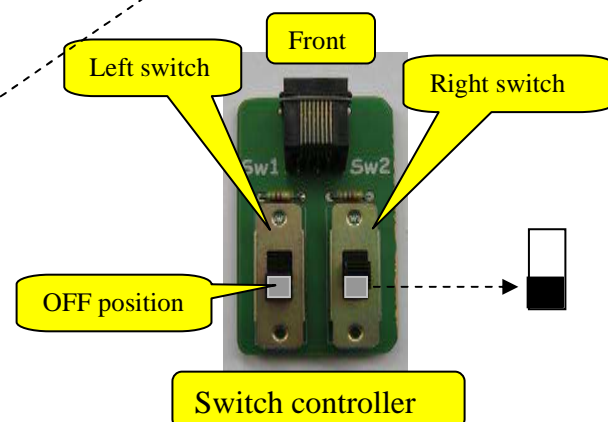


Table 2: Symbols required for filling out table 1

6. Lay your robot storage box on the floor and try to steer your robot around the box. See how close you can go without hitting the box.
7. In a later activity you will participate in a competition using this method of steering.