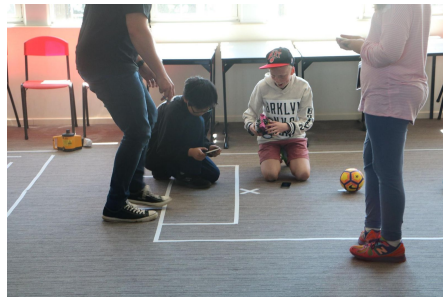


Robots

The robots session was run using Sphero robots with the Sphero EDU <https://edu.sphero.com/> app, and mBots using the MackBlock app (<http://learn.makeblock.com/en/makeblock-app/>), both on iOS (but available on android too).

We set up a maze, a soccer field and archery (a line of tape, and then a target set of smallish squares a few metres away - students had to get a close to the target as possible with the sphero) using masking tape on the carpet.

The soccer field:



The Maze:



The students had a go using the inbuilt driving programs to tackle the different activities, and some had a go at using the block based programming for archery and for the maze. There was also an mBot sumo wrestling match on the soccer pitch!

One of the interesting challenges for the students was figuring out where the robots were facing in relation to the operator, and so which direction to move them - some good spacial awareness challenges :) The archery provided a good opportunity to experiment with how fast and for how long to program the spheros to try to reach the target in the minimum number of moves.

To extend encourage all the students to use only code and not use the inbuilt driving programs.

Also check out: <https://edu.sphero.com/> and <http://www.makeblock.com/> for some other great challenge ideas.