Activity 4 – Driving Competition

Aim:
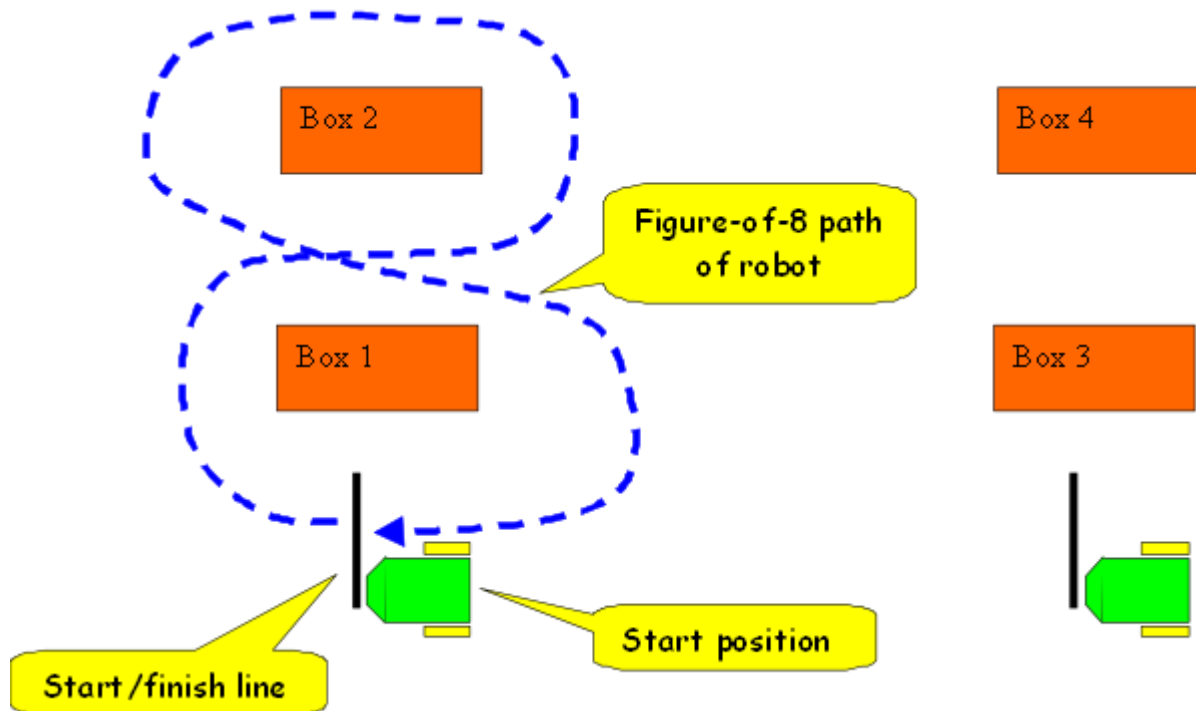Class competition based on robot driving skills.

Materials:
- Working robots
- Four robot storage boxes
- Stopwatches

Location:
Requires large floor area, i.e. gym hall

Running the Competition:

1. Build a competition arena using four robot cardboard boxes and two strips of black tape. Suggested below is a figure-of-8 course, but any format would be suitable.

2. Two teams can race at once (head-to-head).
3. For each team:
   - Set your robots into mode 'J1' and place at the start positions. Use sequence '2A_D_A'.
   - When ready, the referee will issue a go command and will start a stopwatch.
   - The first member of the team will drive a figure–of-8 path round the boxes. When reaching the finishing line the second member of the team will take over and repeat the path.
   - Finally, the third team member will repeat the path.
4. The referee will stop the stopwatch when the robot touches the finishing line. The times are recorded for each team (maybe a bonus deduction of a few seconds for winning a heat).
5. The referee will stop the stopwatch when the robot touches the finishing line.
6. Start with a league system where each team get two or three goes. The best four teams would then run semi-final/final head-to-head to find an eventual winner.