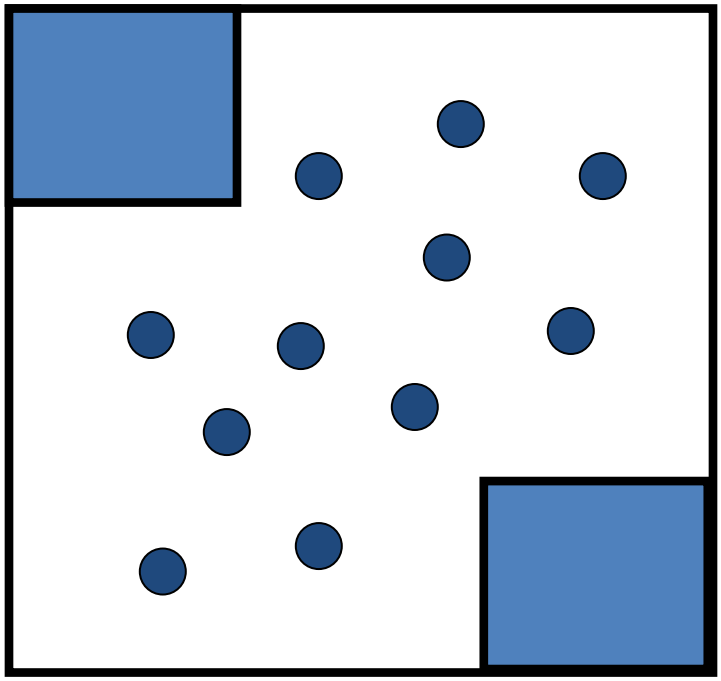
Hockey Bots Competition

The Challenge:

Get your robot to collect as many "pucks" as possible and put them in either goal. You will be competing in real time against a second robot.



Rules and Details:

- Robot with the most pucks in either net wins
- Both robots will start at random spots in the arena chosen by the referee
- You will be given a 2.5-minute time limit.
- Arena boundaries will be 10 cm high cardboard walls
- Pucks will be small round plastic disks (disk will have an approx. 1 cm height but will easily slide along the floor)
- You can use *any* strategy you wish (inhibit the other robot, hoard pucks etc). But you must have scored more than other robot to win.
- If no robot has scored in 2.5 minutes. Mr. Walzl will issue a winner or eliminate both robots.
- Your "*Hockey stick*" must not be bigger than 15cm.

Marking: See below

Hockey Bots Project – Marking Scheme Name: _____

- *Fill out the following form to evaluate your effort and achievement during this project.*
- *Rate each statement below from 0 to 5*
- *Where 5 is "completely true" and 0 is "not true at all"*

1. I thought out and **planned** my **mechanical design** so my hockey bot would collect pucks and scored points quickly and effectively.

2. I ***tested*** and *redesigned* my hockey bot ***several times*** in order to identify and analyse important elements of the competition task and create the best solution I could.

3. My Hockey Bot was *ready to go* and in *good operating condition* several days before the competition so I could test my robot and prepare for in the tournament.

4. I used my ***programming skills*** to *improve* my Hockey bot's ability to get around the arena and collect pucks more efficiently.

5. I used class time affectively (I was always focused on my project).

6. My competition performance was excellent

A fair grade for me (out of 30)