

# RoboRace Competition

Build and program a Lego Mindstorms robot!  
Form 6 teams. Try to get the team sizes as equal as possible.

## Construction

Construction time ends at 13.15 on Thursday. You may use Lego pieces in your construction and, if you have time, standard 0-5V sensors + the required circuit to connect them to the RCX. Apart from that no other components/materials may be used in the construction of the robot. The robot may have any shape, but must at the start of a race fit inside a 30 by 30 cm box.

## Rules

The races takes place on a raised track. The width of the track varies, and is in some places quite narrow. The edge of the track has a thick black border.

Races are run between two robots. Each robot starts at a randomly determined starting point, and one of the robots has to complete a lap clockwise, while the other need to go counter-clockwise. This means that the robots will have to meet somewhere on the narrow track. If a robot falls off the track it loses the race. If no robot falls off the track the winner is the robot that first completes a lap in the correct direction. The maximum race time is two minutes. If there is no winner after two minutes the race is a draw.

Switching program slot between races is allowed, but not reprogramming. Repairs are allowed between races, but not modifications.

## Tournament

The tournament starts right after the end of the construction time and is a round-robin tournament. The winner of the competition is determined in a final between the two highest ranked teams.