



# ROBOTICS CHALLENGE

## Challenge Description

### “Mobile Catapult”

Devise a robot that moves into position and launches a projectile using a catapult.

## Specifications

- Challenge starts 10 cm from the launching position
- Robots must be made with LEGO Mindstorms Robotics Invention System and be programmed with Robolab programming environments.
- Robots can consist of a maximum 1 RCX, 8 Wires, and 3 motors.
- Nothing can be added or removed from the robot during a round.
- No non-lego parts are allowed
- Challenge is maximum 3 minutes long

## Adaptations

Create an auto-loader.

## Scoring

40 point challenge

10 point bonus for the adaptation noted above

20 point bonus in voluntary competition with other team(s) for farthest thrown object on first try.

-10 points each time robot falls off the playing area

Up to 5 points will be deducted from the total score for the total amount of damage sustained by the robot, as determined by the judge.

## Hints and Tips