



# ROBOTICS CHALLENGE

## Challenge Description

### “Venus Flytrap”

Design a robot that resembles a Venus Flytrap. The robot should enclose its jaws on its “prey” when in position without dropping.

## Specifications

- Challenge starts with the robot ready, jaws open. When the judge drops a piece of lego debris into the jaws, the jaws shut and hold the prey.
- 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 1 minute long



## Adaptations

- Have more than one set of jaws operating independently, maybe of different sizes like on a real plant.

## Scoring

- 100 point challenge
- 20 point bonus for adaptation noted above
- Robot may not be handled during trial.
- Up to 25 points will be deducted from the total score for the total amount of damage sustained by the robot, as determined by the judge.