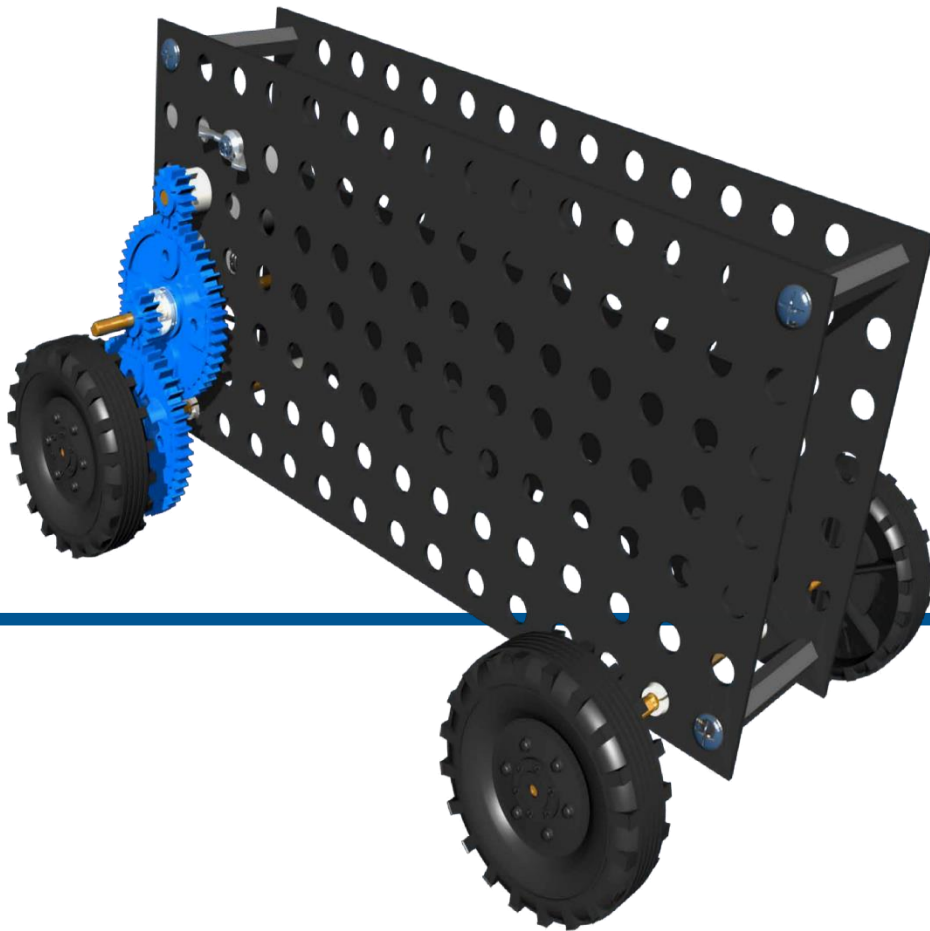


A World In Motion® Motorized Toy Car Challenge

Scoring Guide



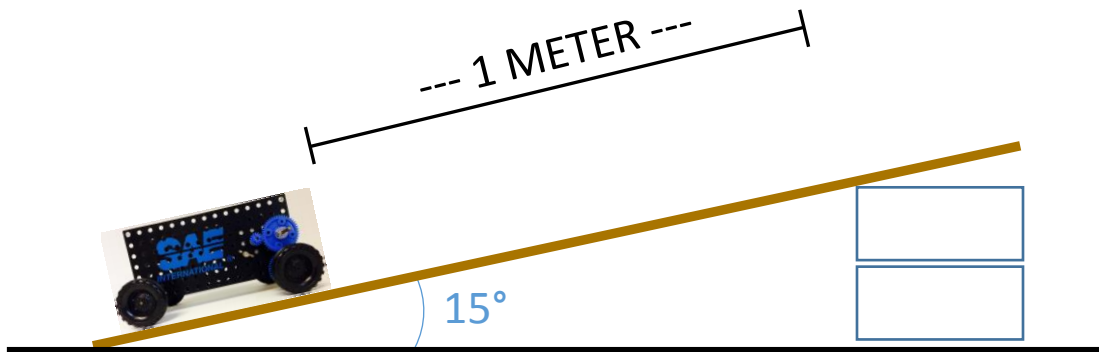
Motorized Toy Car 15° Ramp Challenge

Objective: Student design teams will construct a Motorized Toy Car that will climb a ramp with a slope of 15° for one meter with the fastest speed.

- The track specs are 1m long x 35cm wide set at a 15° incline.
- Design team must use the AC adaptor with no additional power source.
- A power strip will be used to start the vehicle.
- Each team will be given 3 attempts.
- Motorized Toy Car must be started behind the start line.
- Motorized Toy Car must stay on the ramp to be a valid trial.

Scoring

- The score for each trial is the time it takes to travel 1m.
- Each of the three trials (if valid) will receive a score.
- The final score is the sum of the three trials (two significant figures).
- The best (shortest) time wins the competition.



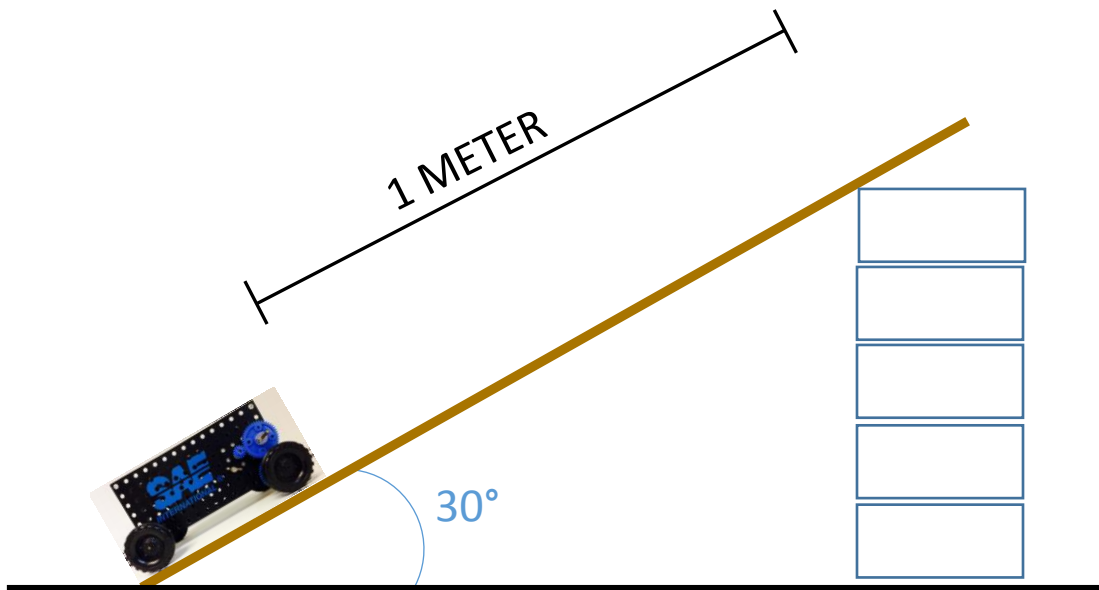
Motorized Toy Car 30° Ramp Challenge

Objective: Student design teams will construct a Motorized Toy Car that will climb a ramp with a slope of 30° for one meter with the fastest speed.

- The track specs are 1m long x 35cm wide set at a 30° incline.
- Design team must use the AC adaptor with no additional power source.
- A power strip will be used to start the vehicle.
- Each team will be given 3 attempts.
- Motorized Toy Car must be started behind the start line.
- Motorized Toy Car must stay on the ramp to be a valid trial.

Scoring

- The score for each trial is the time it takes to travel 1m.
- Each of the three trials (if valid) will receive a score.
- The final score is the sum of the three trials (two significant figures).
- The best (shortest) time wins the competition.



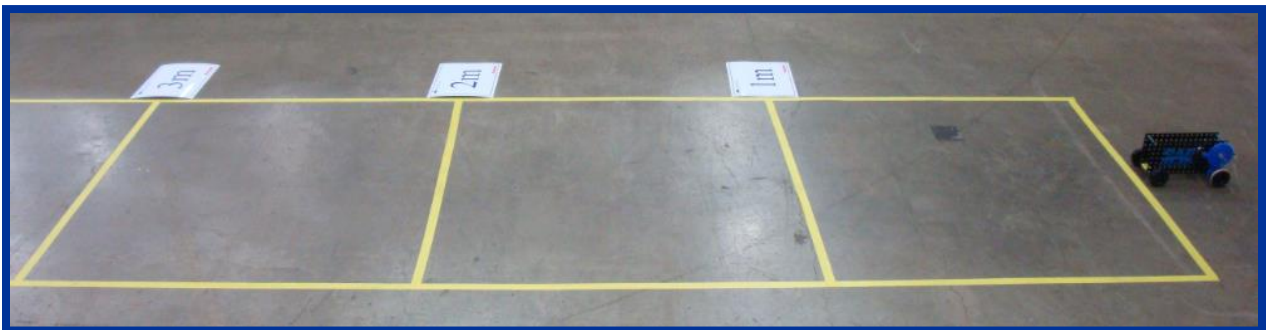
Motorized Toy Car Speed Challenge

Objective: Student design teams will construct a Motorized Toy Car that will travel 3m in the shortest time.

- The track specs are 3m long x 1m wide.
- Design team must use the AC adaptor with no additional power source.
- A power strip will be used to start the vehicle.
- Each team will be given 3 attempts.
- Motorized Toy Car must be started behind the start line.
- Motorized Toy Car must stay on the track to be a valid trial.

Scoring

- The score for each trial is the time it takes to travel 3m.
- Each of the three trials (if valid) will receive a score.
- The final score is the sum of the three trials (two significant figures).
- The best (shortest) time wins the competition.



Motorized Toy Car Obstacle Course Challenge

Objective: Student design teams will construct a Motorized Toy Car that will travel over/through obstacles in the shortest time possible.

- The track specs are 3m long x 1m wide.
- Design team must use the AC adaptor with no additional power source.
- A power strip will be used to start the vehicle.
- Each team will be given 3 attempts.
- Motorized Toy Car must be started behind the start line.
- Motorized Toy Car must stay on the track to be a valid trial.

Scoring

- The score for each trial is the time it takes to travel 3m.
- Each of the three trials (if valid) will receive a score.
- The final score is the best (shortest time) of the three trials (two significant figures).

