

Wind Powered Lego Car Challenge



Create a car out of LEGO that is powered by wind! The challengers are required to build a LEGO car with at least 3 wheels and must use a wind source, such as a fan or hair dryer to make it travel!

**Registration is required for this challenge (Maximum of 100 registrations will be accepted).
Registration closes on February 8th, 2021**

**Contest starts
March 8th
and ends
March 14th, 2021
at 12:00 p.m.**

**Contest will be judged in three age groups:
Grade K-4 / Grade 5-8 / Grade 9-12.**

Each age group will have 1st, 2nd, and 3rd place winners.

1st place-\$75, 2nd place-\$50, 3rd place-\$25.

All winners will receive Amazon e-gift cards.

Challenge Materials

Basic Lego kit will be provided by Skills Manitoba

- Lego (optional)
- Any type of paper or fabric for a sail
- Any household materials required to build and attach sail to vehicle
- Pencil/pen and paper for blueprint designs
- Measuring Tape
- Hair dryer or fan
- Camera and Video Recording Device

Challenge Rules

1. You **MUST** draw your blueprint design on paper first. Designs with measurements and legend will receive higher marks (See judging section for more). Take a photo of design.
2. Build your car using the lego kit provided. Making sure that is no longer than 20 cm (bumper to bumper). You may add your own lego from home. Take photos of car.
3. Your car **MUST** have 3 or more wheels
4. Your car **MUST** have sail attached
5. Lay out a measuring tape up to 2.5 meters
6. Video must be taken to complete this step. Place the car next to measuring tape at 0. Use wind source and keep wind source at 0, start blowing the car until it stops. Include how far the car has travelled in the video.
7. Please send all photos and videos to skillsmb@skillsmanitoba.com by March 14th at 12:00 p.m.



safeathomemb.ca

* The winning videos may be posted to our social media accounts

Note: Videos must be appropriate for all audiences. Any offensive videos are automatically disqualified.

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Judging/Scoring

Distance Achieved

Vehicle travelled 0 – 1 meters

10 points

Vehicle travelled 1 – 2 meters

15 points

Vehicle travelled 2 – 2.5 meters

20 points

Creative Design

Challenger's submission was made from Lego or Lego like materials and met either # of wheels or length requirement of the challenge criteria

5 points

Challenger's submission was made from Lego or Lego like materials and met both # of wheels and length requirement of the challenge criteria

10 points

Challenger's submission met challenge criteria and had a theme

15 points

Challenger's submission met challenge criteria, had a theme AND sail was decorated to that theme

20 points

Design Plans

No Plan was provided

0 points

Challenger had plans with measurements

10 points

Plans were to scale with measurements outlined. Demonstrated length of car in a photo.

15 points

Plans were to scale with measurements outlined. Detailed. Demonstrated length of car in a photo. Straight edge was used. Lines are neat and clean

20 points

For more fun activities like this one, check out this link:

<https://safeathomemb.ca>



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**Challenge
Total Marks**

60

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