

#SkillsAtHome Challenge Series

Challenge #9: LEGO Vehicle

This challenge brought to you by:



This program is funded by the Government of Ontario.



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Challenge—Create a vehicle out of LEGO that is powered by wind! The challengers are required to build a LEGO vehicle with at least 3 wheels that can travel more than 2 metres! Challengers are allowed to use a wind source, such as a fan or hair dryer. Follow & Tag @SkillsOntario and use the hashtags #SkillsAtHome and #SkillsLEGOVehicleChallenge.

Challenge Materials

- Lego (You may use only Lego, or similar Lego-type products)
- 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

Challenge Rules

1. You **MUST** draw your design on paper first. Designs with measurements and legend will receive higher marks (See judging section for more)
2. Your vehicle must be no longer than 20 cm (bumper to bumper)
3. Your vehicle **MUST** have 3 or more wheels
4. Once you are done, upload photos and/or videos to Twitter. Follow & Tag @SkillsOntario and use the hashtags #SkillsAtHome and #SkillsLEGOVehicleChallenge

Skills: Planning, design, Green Energy

Skilled Trades/Technologies: Auto Service

[Click here for a full list of all recognized Ontario skilled trades](#)

Safety: Always have a parent/guardian supervise when using electrically powered devices, such as hair dryers or fans.

Judging/Scoring

Submissions will be marked in the following:

Distance Achieved	Points
Vehicle travelled 0 – 1 meters	5 points
Vehicle travelled 1 – 2 meters	10 points
Vehicle travelled 2 – 2.5 meters	15 points
Vehicle travelled more than 2.5 meters	20 points
Total Marks (Total out of 20)	

Creative Design	Points
Challenger's submission was made from lego or lego like materials and met 1 of the challenge criteria (# of wheels or length requirement)	5 points
Challenger's submission was made from lego or lego like materials and met both of the challenge criteria (# of wheels and length requirement)	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
Total Marks (Total out of 20)	

Design Plans	Points
No Plan was provided	5 points
Challenger had plans with measurements.	10 points
Plans were to scale with measurements outlined. Provided Length	15 points
Plans were to scale with measurements outlined. Detailed. Provided Length. Straight edge was used. Lines are neat and clean.	20 points
Total Marks (Total out of 20)	

Challenger Total Marks: / 60 points