

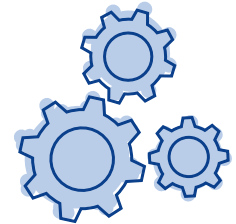
The Solar Race Car Challenge

Information and instructions on building the solar race car and running the race.



Run your race with the spirit of the competition in mind

We ask students to enter the “spirit of the competition”. We hope students will learn new skills and be prepared to be involved in fair and fun racing. Fairness is the number one priority and makes it fun for everyone. All participating teams are provided with a standard solar car kit to build and race.



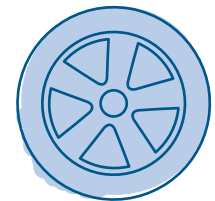
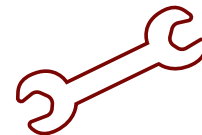
Constructing the solar race car

You can still take part in the solar race even if you modify your solar car. To make your modifications are within the spirit of the competition, use the following guidelines.



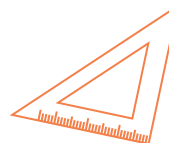
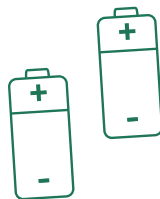
Car construction guidelines

In order to keep the race in line with the spirit of the competition the following rules apply to the construction of the cars.



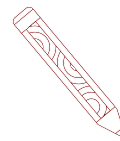
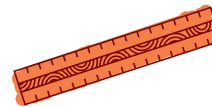
What each solar race car must include

- On/off switch;
- Battery packs;
- Bright Horizons sticker;
- One solar panel maximum.



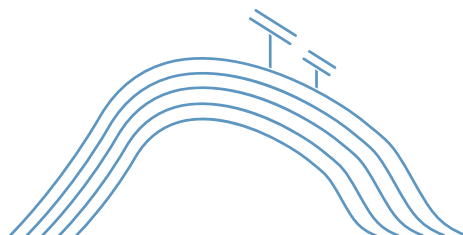
Approved modifications

- Material to help angle the solar panel such as foam, cardboard or balsa wood;
- Modifications to the corflute chassis;
- Modifications to the wheels.



You can't....

- REPLACE standard kit items ie: no additional solar panels no additional motor, etc;
- Have EXTRA items ie: more than one solar panel.



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RUNNING YOUR SOLAR CAR RACE

Find out who has the fastest solar school's car across regional WA by checking the leaderboard on the Bright Horizons website page and compete by racing your cars against each other using the solar school racing track .



How the solar race works

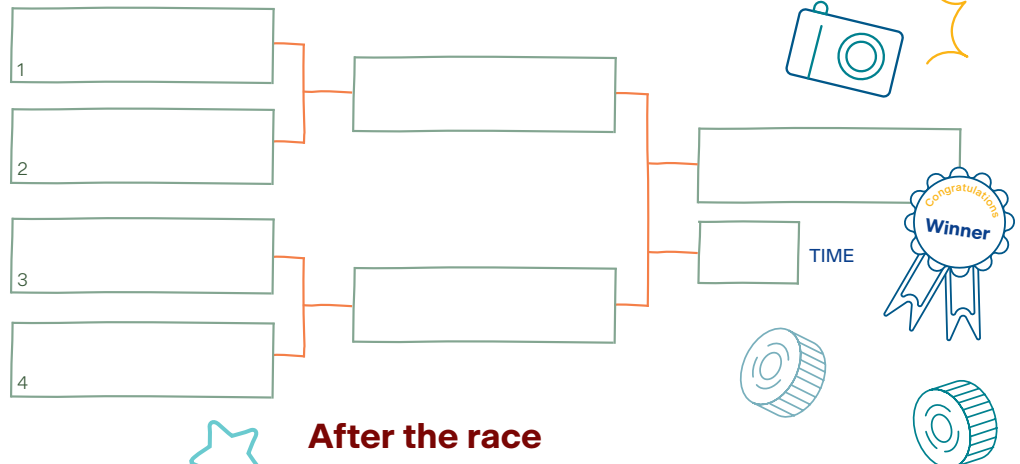
- Students work in teams of two to four members (recommended) to design and build a model solar car and need to have a team name too.
- Teams race off in pairs.
- The fastest car from 'best of three' races from each pair moves to the next round of racing.
- Continue racing against each other in pairs until you have an overall tournament winner!

Starting the race

The below is a step-by-step list to make your solar car race easy to start each time.

First, remember to..

- Have a solar car catcher at the other end of the track to catch your solar car
- Have a timer making sure they time each car as it finishes the race.



Students, get ready...

1. Place the front of the car at the start line (wheels must be behind the line);
2. Make sure you have a catcher at the other end of the track to catch the car as it finishes;
3. Ensure the guide pins under the car are on either side of the conduit channel;
4. Cover the solar panels with the Bright Horizons 'paddle' for shade;
5. Turn the switch to the ON position;
6. When the cars are ready the starter will call... Ready, Set, GO;
7. Lift the 'paddle' on GO to expose the solar panels to the sun and the race will start;
8. The cars race to the other end of the track. Make sure there is a catcher from your team at the finish line to stop the car and turn the switch to off.



After the race

- The race timer will record the race times and announce a winner;
- Continue the next round of the tournament.

Crowning the Solar Race Car winner

- After you have completed the rounds of the tournament the remaining final two solar cars will race each other in the final;
- The winner receives the Bright Horizons Solar Race car trophy.



Other students can be given a participation certificate (download at horizonpower.com.au/brighthorizons)



Head over and upload the winning race time at horizonpower.com.au/brighthorizons



APPROVED ARTWORK SIGN OFF HOPOPW0043_Solar Race_Challenge_A4_Sheet_FA1

Client	HORIZONS
Job Number	HOPOPW0043
Date	10/08/21
Version	FA

Please check and initial your internal approval:

Engagement Team	Copy	Design/ Art Direction	Producer	Studio
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