

**Malvern
Primary
School**



HPR Team



ENERGY 
BREAKTHROUGH
POWERED BY IMAGINATION

The Energy Breakthrough program aims to...

- Provide an excellent technology project for students from Prep to VCE level
- Encourage young people to explore solutions to environmental and transport issues
- Provide an opportunity for schools and communities to work and learn together
- Provide an opportunity for girls to participate in what has traditionally been a 'male' dominated area of the curriculum
- Be a fun program with real world challenges
- Offer students opportunities to explore and address vehicle design, driving skills and vehicle and passenger safety issues

The Three Program Elements ...



Display & Presentation (25%)

A 20 minute presentation to judges for team members to demonstrate their knowledge and understanding of their entry.



Design & Construction (25%)

An informal conversation assessing the student's understanding of the vehicle and the concepts involved in its design and construction.



Trial (50%)

Teams will compete in a 14-hour trial on a street circuit in Maryborough

Items to procure



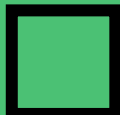
Trike



Trailer



Exercise bikes



Clip in race shoes (mid-late Term 2)



Camping gear incl. cooking



Team T-shirts (Term 3)



Our Trike

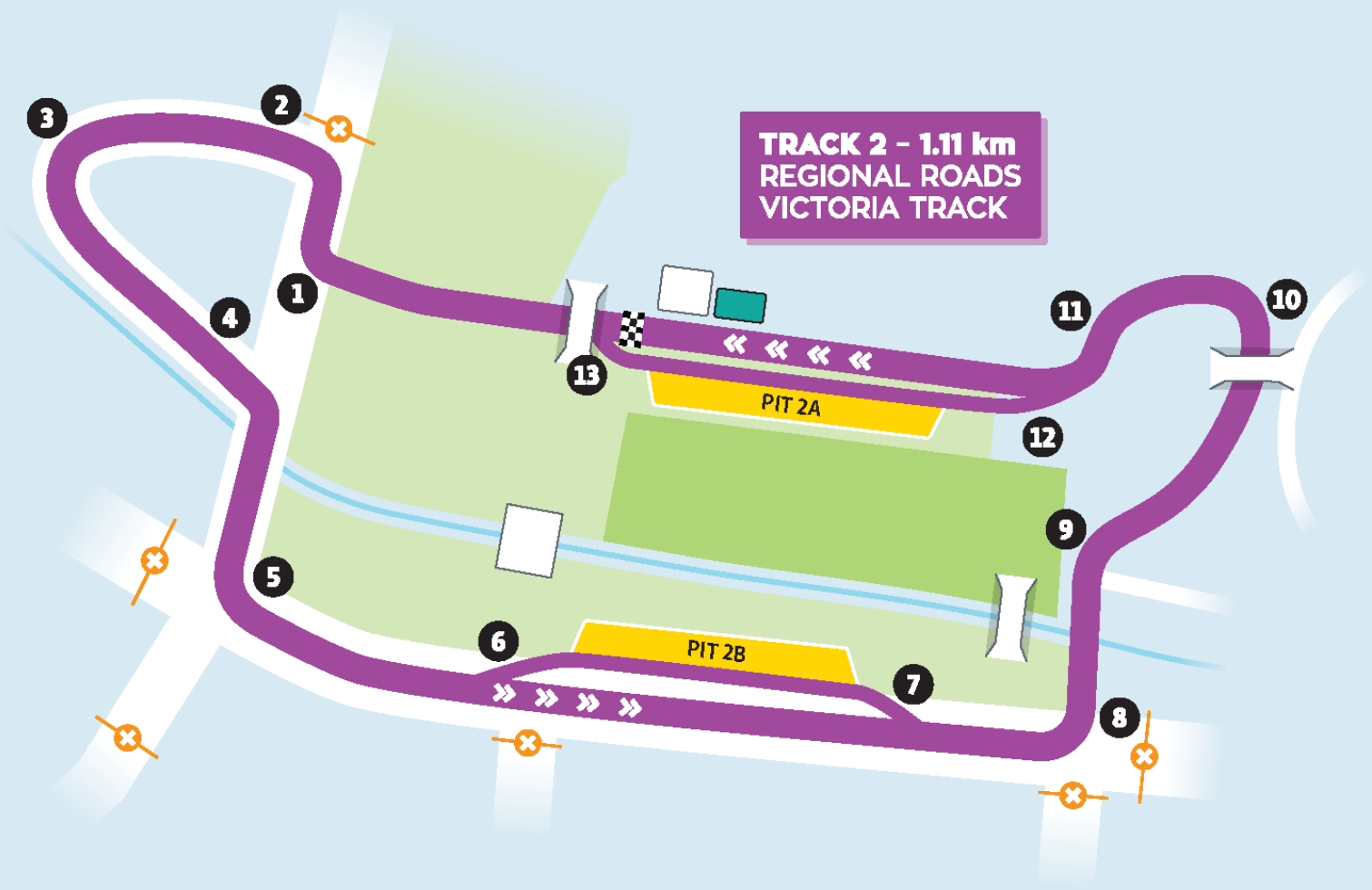
- We have sourced a secondhand trike that is perfect for our level of entry into the program
- It meets all the safety requirements of the Energy Breakthrough program
- It's ready for practicing at school and trial races
- This has kindly been set aside for us until we raise the funds to purchase - \$3,000

Maryborough Competition

- Thurs 23rd – Sat 25th November
- The expectation will be that all students involved are accompanied by a parent or guardian
- The circuit is approximately 1.1 km long

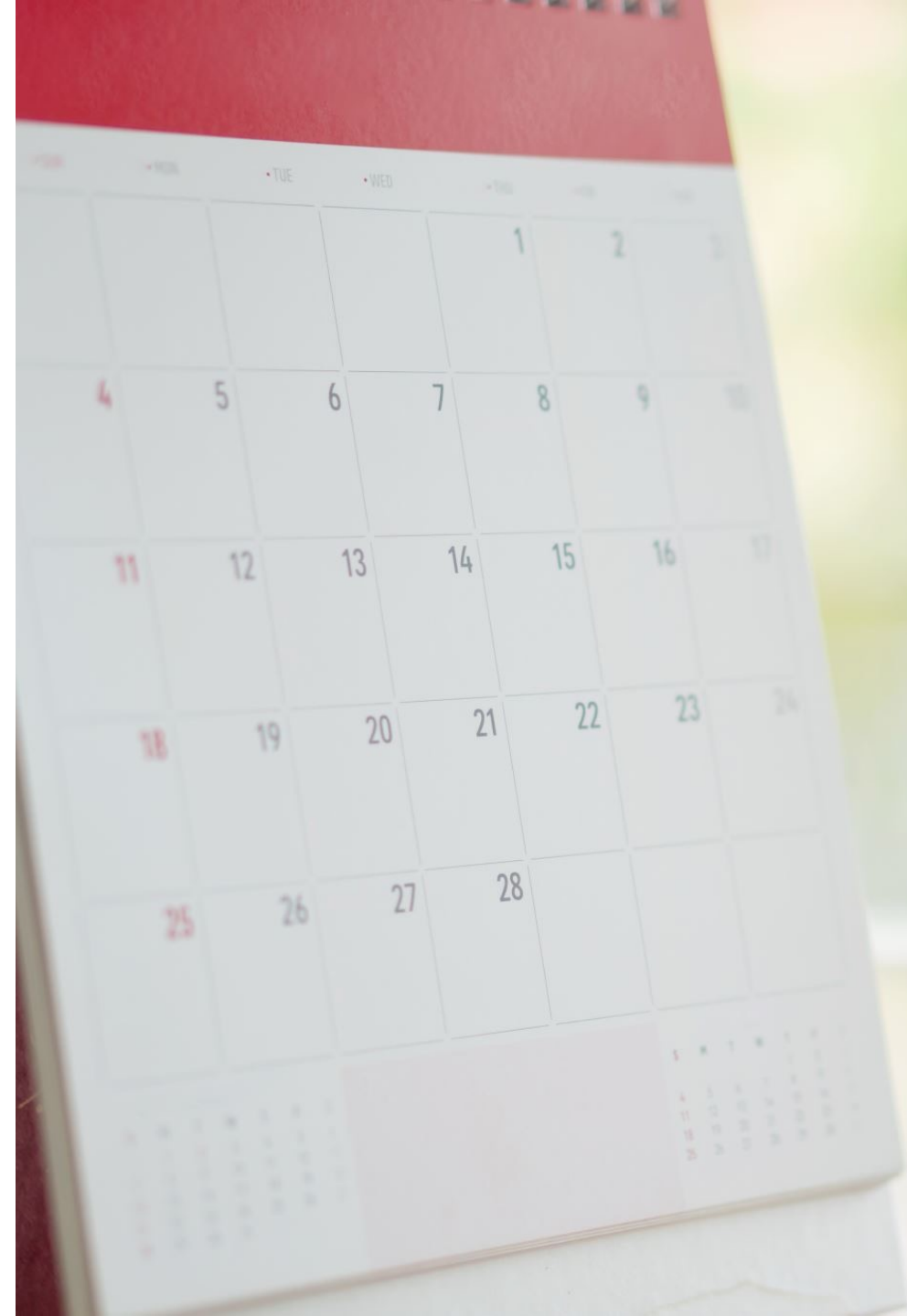


ENERGY BREAKTHROUGH SITE - KEY				eb.org.au
First Aid	Accessible Toilet	Parking Area	Event Operations Centre	Exhibitors (EB Central)
Assembly Area	Showers	Road Closed	Stage	Bridge
Camping Area	Wrist Banding Station	Gate (numbered)	Trackside	One way traffic only
Food & Refreshments	Recharge Station	Marshal Point (numbered)	Display & Presentations	Walking track only
Drinking Water	Repair Station	Start/Finish	Design & Construction	
Toilets	Masseur	Pushcart Changeover Point	Scrutineering	



Example of schedule from 2022

<https://www.eb.org.au/schedule/>





Riders

- 4 boys + 1 emergency
- 4 girls + 1 emergency

Pit Crew

- Up to 5 students

Selection of team

Primarily made up of Year 6 students (numbers permitting)

Regular attendance of weekly after school training sessions

Commitment to weekend training sessions at Casey Fields – aiming for 4-6 between now and Maryborough Race (ample notice will be given)

External fitness work – walking, running, cycling (we will possibly set up a Strava account for anyone to join)

Riders should be working towards a race fitness of 30-45min in the trike at consistent pace

Where to from here?

