
LEARNING CHOICES PROGRAM

Racing for the Future

DURATION OF SUBJECT

Full year

SUBJECT TYPE

Authentic Learning

COURSE DESCRIPTION

This subject offers exciting real world challenges for students in a hands-on engineering experience that will expand their knowledge across a range of subjects including Science, Technologies, Humanities and Physical Education with a focus on sustainable transportation. Working in teams, students will build on previous years designs and improve an environmentally sustainable form of transportation that is used in an endurance race at the end of the year. The subject has a strong focus on the use of sustainable practices and the implications of the choices we make on our Earth and its various environments. Each student will also develop their personal health and aerobic fitness in order to power the vehicle for the endurance race.

ASSESSMENT

The proof of the performance is in the scores that the team obtains over the duration of their endurance race. Marks are awarded for design and construction, display and presentation and knowledge of sustainable production and energy systems and the final distance covered in the endurance race.

Why choose this subject?

Students who are interested in keeping fit, have an interest in environmental and sustainability issues, engineering and enjoy working cooperatively as a team member would benefit from this subject. This is a subject that offers students an opportunity to experience a hands-on learning challenge with practical applications for all their subjects.

Note: Please refer to the Cost Schedule for details of costs relevant to this subject.