
LEARNING CHOICES PROGRAM

Model Solar Vehicle Challenge

DURATION OF SUBJECT

Full year

SUBJECT TYPE

Authentic Learning

COURSE DESCRIPTION

This challenge provides students with a hands-on engineering experience that expands their knowledge across a range of Science and Technology disciplines. Working in teams and individually, students explore the potential of renewable energy while building model boats and cars powered by solar panels. They are involved in all areas of their vehicle's design and production and gain an understanding of how solar cells work, circuitry and why and how gears are used for propulsion.

ASSESSMENT

In this subject, students choose a Model Solar Vehicle to construct and compete at the Victorian Model Solar Challenge. As part of this process, marks are awarded for vehicle construction and presentation of a poster outlining the design and construction of the vehicle, showcasing knowledge of how solar panels produce sustainable energy. Students are required to use their solar panels to ensure their vehicle meets race regulation requirements.

Why choose this subject?

This subject suits students who are interested in working across a range of engineering disciplines and in developing a more sustainable approach to energy use.

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