

Tasmanian Science Talent Search 2006

The Directors of Science Talent Search 2006 remind schools that the next dates for final entries in the following sections:

Science Games

Working Models

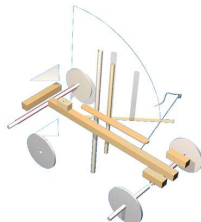
Computer Presentations

Photographic Essays

All entries in the above sections must be received by **July 28th 2006**

Technology Challenge

Eligible students – all divisions



Topic: Design a Land Yacht which will be wind powered.

Essential Learnings Links:

- Communicating - Being literate
- Communicating – Being Numerate
- World Futures – Designing and Evaluating Technological Solutions

Understanding Goals:

- Students will understand how to design, make and critically evaluate a wind powered land yacht.
- Students will understand how to describe and reflect on the process that they used to design their land yacht

Closing Date: Entry forms *8th August, 2006.*

Regional Public Judging

Launceston:

When and Where:

South: August 13th. 10am-1pm Activities Centre in TUU, University Of Tasmania, Sandy Bay Campus, Churchill Ave Sandy Bay

see map: <http://www.utas.edu.au>

<http://www.utas.edu.au>

NorthWest: August 20th Imaginarium Devonport.

North: August 27th 10am-1pm University of Tasmania, Newnham Campus.

Entry forms should be sent by August 8th so that we have some idea of the number of entries to arrange sufficient judges.
Send to Box 3053 Canning St. Launceston, or direct by email.

Every effort will be made to make sure that those students who have entered are aware of the details for the judging. All entry forms must be received by August 8th to allow sufficient time for the arrangement of sufficient judges.

Contact: stsearch@bigpond.net.au for any further enquiries

The Challenge:

Conditions:

The wind power is the only source of energy. Once in operation you cannot touch the device. The wind will be provided by a small portable fan supplied by Hydro, **to be integrated into the structure**. Schools should email stsearch@bigpond.net.au to arrange delivery of fans to share amongst their students. The surface for testing will be polished linoleum.

Two attempts will be permitted.

Construction materials must be principally recycled materials and the final design and all the materials used, including the fan must fit in an A4 reflex box.

Judging Criteria

1. Distance travelled from the starting point (if > 5 metres, speed over 5 m will be measured)
2. Stability of construction
3. Elegance of design
4. Percentage of recycled materials
5. Design plan and construction diary
6. Creativity, originality, sturdiness..
7. Do all materials fit in an A4 reflex box?

Do NOT send entries to the judges

Schools in remote locations may submit their winning entries via video.

Possible starting ideas:

http://school.discovery.com/lessonplans/programs/jyw_windmachines/

<http://www.wangps.vic.edu.au/landyacht.htm>

<http://www.byroncs.nsw.edu.au/starfish/science/yacht/yacht.htm>



Please make sure your student's name is on both the written work and the construction, as those which are successful are used as part of the display at presentation.