

Scorpio Technology NEWSLETTER INSIDE THIS ISSUE



WELCOME

Great ideas spring alive! Uncover some new ideas for your Spring teaching. Spring allows us to get out of the classroom and into the outdoors for many learning opportunities.



Remember, we're here to support you, however we can. Contact us at (03) 9802 9913 or email us at

sales@scorpiotechnology.com.au

PRIMARY STEM: SPRING OUTDOOR ACTIVITIES

Take advantage of the great weather that gives us a chance to go outside with our students after many months of indoor activities. Have fun with the kids and provide fun learning opportunities!

MOTION - FLIGHTS, ROCKETS AND RACERS are great to experiment outside. Try out:

- LIQUIFLY (Code: LQ5000) Flies over 30 metres.
- The AERO CAR (Code: HJ1800) or
- The AIR POWER ENGINE CAR (Code: FS631)
- Pathfinders' coolest airplane launcher launches planes about 3 to 16 metres. Test and evaluate plane designs. Which design flies further? (SKY SURFER AIRPLANE LAUNCHER Code: WM6735)
- Scorpio's BLUE BROTHERS kits

GREEN POWER AND ALTERNATIVE ENERGY SCIENCE KITS including Scorpio's solar kits help introduce solar energy and renewable resources to your students. Projects suit small group work.

- **Free project sheet** COOKING WITH SOLAR ENERGY. A fun activity. **Click here:** <https://www.scorpiotechnology.com.au/teaching-units>
- **Solar House and vehicles** are a great way to introduce students to photovoltaics.

Check out Scorpio's **2022 PRIMARY STEM CATALOGUE** for many great ideas suited to your classroom needs.

Click on link: <https://www.scorpiotechnology.com.au/catalogues>

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Teacher Conferences & Workshops**

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Victorian Model Solar Vehicle Challenge

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**2023 Orders
Sale Items
For Laughs
Did you know?**

TEACHER CONFERENCES & WORKSHOPS



Scorpio is attending or supports these Design & Technology teacher activities:

DATTA WA: 25/11/2022

"Inspiration, Innovation, Passion",
Edith Cowan University, 2 Bradford
St, Mount Lawley

DATTA VIC: - Friday 9/12/2022

"Designing the Future", Banyule
Nillumbik Tech School,
Greensborough



**LEARN TO MAKE,
MAKE TO LEARN**

"We have this handy fusion reactor in the sky called the sun, you don't have to do anything, it just works. It shows up every day."

Elon Musk (1971-)

Business magnate and investor



SCORPIO TECHNOLOGY Vic Pty Ltd,
1/31 Dalgety St. Oakleigh Vic 3166
www.scorpiotechnology.com.au

November 2022

VICTORIAN MODEL SOLAR VEHICLE CHALLENGE Report by Anita Vejins

In spite the day being overcast and threatening rain, primary and secondary students, their teachers and parents gathered at Brunswick East Primary School on Sunday 16th October for the solar vehicle competitions.

There were three types of solar vehicles competing – boats, student designed cars and Sheridan cars. It was great to hear the excitement around the pool and tracks. We saw single hulls and double hulls, wide and narrow models. Primary students had decorated their models. One school used 3D printing to manufacture a small tilt-able platform with a printed locking nut to attach for their boat's solar panel.

The student designed cars showed a great diversity. Many cars used a tear drop shape hoping that this would decrease drag. Some models were lower to minimise drag. The circular track made it obvious which vehicle performed fastest. A group of Taiwanese students entered this year, making it into international event. Their cars that were driven from the back and had 4 smaller wheels than regular solar wheels.

Thanks to the hard work of the VMSC committee and their support team, the event ran very smoothly. Looking forward to seeing next year's competition.

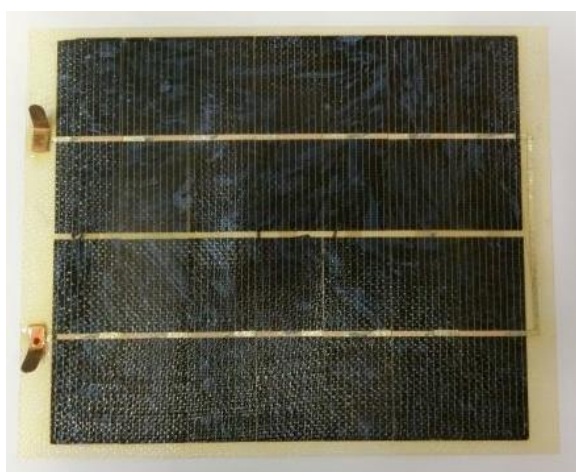
Join the VICTORIAN MODEL SOLAR VEHICLE CHALLENGE in 2023. They would love to see you and your students at the event or join in the event held in your state.



The gate drops and the boats race down the length of the pool. Many students used ADVANCED SOLAR BOAT KIT (Code: SBTADV).



Ian Gardner (VMSVC committee) scrutineers the student made cars. The industrial motor FAULHABER 2232 (Code: SMFAU) is the motor of choice for solar competitions.



A mounted calibrated Scorpio SOLAR 26 panel was provided to student made car participants by VMSV. Students only needed to plug the panel onto their vehicle and were ready to race. This minimalised calibration time on the race day.



Don Sheridan (dec) designed a light weight solar car. All students use the same kit but surprisingly they all perform differently. (SHERIDAN KIT CAR Code: SHERIDAN)

2023 ORDERS

The end of the school year is rapidly approaching. This is a great time to decide your teaching requirements for the new school year. As usual, we have some new products planned for 2023, so keep an eye out for these on our website and in future newsletters.

Place your order 2023 now!



Place your school order for 2023 ahead of time. Your order will be waiting for you so classes can begin work straight away. A great way to lessen the start of year panic.

- Orders dispatched and / or paid for this year will be charged at the current price.
- New year orders will be charged at the price that is current when dispatched unless paid for in 2022.

Businesses across the country have been faced with many challenges – costs have risen worldwide for materials, goods, and shipping. Scorpio has no alternative but increase its prices to you in the new year. As always, we will endeavour to keep price rises to a minimum so that you can continue providing great learning experiences to your students.

SALE ITEMS

Start your Christmas present search here! Sale items include great gift ideas for all ages. Check out our diverse range of Sale and Clearance items at: <https://www.scorpiotechnology.com.au/sale-items>.



DID YOU KNOW?

3D printing

3D printing was developed in 1983. It was referred to as “Rapid Prototyping”. Charles Hull came up with the idea in 1983 while he was using UV light to harden coatings on a tabletop. Hull successfully secured a patent for the stereolithography apparatus in 1986. The earliest applications were in research and development labs and tool rooms. The first 3D printer was sold in 2009. Since then it has been used in many sectors due to its versatility and speed for development.



I've got a joke about 3D printing..

I'll let you know when I've finished making it.

3D printers are now printing guns...

I'm not impressed. I've had a Canon printer for years.

What's the difference between a stepping stool and a miniature 3D printer?

The former is a little ladder and the latter is a little former.

