



WELCOME

We've put together some interesting ideas to see you through to the end of the school year. So get comfy and enjoy!

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

⚙ Page 1

Primary - STEM – Pathfinders Kit
Teacher Conferences & Workshops

⚙ Page 2

What's New?

⚙ Page 3

What's New? (cont.)
Vic Model Solar Challenge
Did you know?
Humour – Just for laughs

⚙ Page 4

Feature article: Design Ideas and
Inspiration

TEACHER CONFERENCES, WORKSHOPS & EVENTS



Scorpio is attending or supports these
teacher activities:

[Victorian Model Solar Vehicle
Challenge](#) at Parkhill Primary, Ashwood
on **Sunday 15 October 2023**
[Design and Technologies Week 16-22
October 2023](#)
[iTE Technology Education
Conference 2023 TechExpo](#), Sydney
30-11-2023 – 01-12-2023
[DATTA WA Conference](#) Bridging the
Gap, Perth, **30-11 to 01-12-2023**
[DATTA VIC Conference](#) Future
Innovators, NCAT Preston **01-12-2023**

PRIMARY STEM: STEM CLASS KIT

Pathfinders Wooden Mechanical Kits

STEM Class Kit, Code: WM6717

Level: Suitable for beginners

Get your students asking questions and solving problems then applying them to our everyday life. Take the design process from conception to an end product, learning new skills along the way.

This Pathfinder STEM class pack includes a teacher info booklet with lesson plans and ideas, plus a 15 page photocopiable student handbook with info about the history of hydraulics machines.

Great for use in the study of: Lever & simple machines; fluid dynamics; engineering; and design & technology. All pieces are pre-cut and pre-drilled for easy and very sturdy construction. You supply scissors, glue and cardboard.

Kit includes parts for 30 students in pairs to build over 15

Check website for additional information
<https://www.scorpiotechnology.com.au>



LEARN TO MAKE,
MAKE TO LEARN

**“Thinking about design is hard, but not
thinking about it can be disastrous.”**

Ralph Caplan.
Design consultant, writer, and public speaker.







A great range of new products to use in your classroom.

Resin Art Clock Project

The **RESIN ART CLOCK** is a **Materials & Technologies Specializations focused project** which allows students to create a personalized clock face using coloured Epoxy Resin. Students can mix, pour and manipulate the resin into the desired patterns to create a unique clock face, of their own design. This clock making project is suitable for students in years 8 to 12 in a supervised environment.

- More information is available in the online Overview.



ITEM NAME	CODE	DESCRIPTION
	RESART10	<p>This kit contains enough 25cm clock faces, movements, hands, hangers and numerals for 10 clocks. It includes 1.0L of resin and 6 x 10g colour packs.</p> <p>The colours are: Dark Blue; Light Blue; White; Black; Gold; Green.</p>
	RESART20	<p>This kit contains enough 25cm clock faces, movements, hands, hangers and numerals for 20 clocks. It includes 2.0L of resin and 8 x 10g colour packs.</p> <p>The colours are: Dark Blue; Light Blue; White; Black; Gold; Purple; Green; Red.</p>
	RESARTSING (MICAXXXX)	<p>COMING SOON - Resin Art Clock Kit (RESARTSING) for hobbyists or Home Education settings. Please contact us prior to ordering.</p> <p>The RESIN ART CLOCK KIT allows you to create a personalized clock face using coloured Epoxy Resin. This kit includes one clock kit, 25cm clock face, 100ml Epoxy resin, disposable gloves, stirrers and a choice from 5 different resin colour palletes.</p> <p><u>Palletes to choose from (pick one from the following):</u></p> <ol style="list-style-type: none"> MICAOCEAN (Blue) = Navy Blue / Teal Blue / White MICAGREEN (Green) = Aqua Green / Gold / Teal Blue MICAPURPLE (Peacock) = Purple / Pink / Aqua Green MICABLACK (Red) = Black / Gold / Red Wine MICAPASTEL (Pastel) = Baby Pink / Lilac / Baby Blue.

LASERVIEW KIT – FUL SET OF 8 (Code: HL1985-001)

The LaserView Kit from IEC is a useful kit of specially moulded prisms and bars that permit a Laser beam to be visible as it passes through the plastic. The special prisms are the same shapes as the 'Hodson' Light Box kit and the long straight and curved bars are new mouldings. The bars are used to teach the principles of optical fibre and the action of internal reflection.

The action of light inside optical fibre cables relates to the study of 'Photonics' which is now part of some curricula. Instruction sheet included.

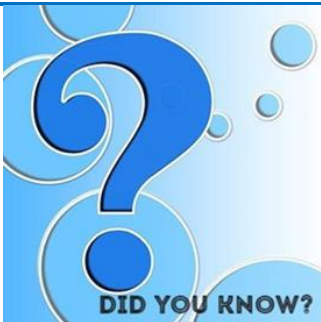


Details for the 2023 Event

Model Solar ran an online event where they covered the event plans, what you should be doing now to get ready, and give an indication of what vehicles should look like (for new entrants). Check out the recording here: - www.facebook.com/events/692889365602240

Also, note the info pack for 2023 - <https://www.modelssolar.org.au/the-event/2023-information-pack>. This should tell you all the details you need for the day, but let me know if you have any questions.

Clint Steele
Victorian Model Solar Vehicle Challenge



Did you know bubble wrap was originally invented as wallpaper?

Engineer Al Fielding and Swiss inventor Marc Chavannes invented bubble wrap by accident in 1957 while trying to create a textured wallpaper by sealing two shower curtains together to trap air bubbles.

<https://parade.com/1199611/marynliles/did-you-know-facts/>



The Laws of Engineering

- Any circuit design must contain at least one part which is obsolete, two parts which are unobtainable and three parts which are still under development.
- Nothing ever gets built on schedule or within budget. A failure will not appear until a unit has passed final inspection. If you can't fix it - document it.
- The primary function of the design engineer is to make things difficult for the fabricator and impossible for the servicemen.



BIOLOGY MODEL CLEARANCE

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

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DESIGN IDEAS AND INSPIRATION



“Your design inspiration should be unique to you. That means what works for one designer might not work for you—and vice versa. What matters most is that you find what *does* work and use it to inspire your awesome creative projects.”-

Tony Ho Tran <https://www.invisionapp.com/inside-design/design-inspiration/>

Design and Technology requires many skills. We will focus on one – the design. Design is a complex notion. For it to be successful we need to establish a purpose or goal. This provides the starting point.

To begin designing you need to have a define the following:

- Define the design goal.
- Who is the end user? What design will suit their requirements?
- Are there any style guidelines?
- Functionality including where the design will be used
- What is the timeframe for completion?

Inspiration and ideas can come from a variety of sources. These ideas do not always happen without planning, sourcing or collecting. Inspiration may come from art, nature, everyday objects, work of other designers or artists, social media and more.

Collect inspiration - Mood Boards

Collect images of designs to help focus your thoughts about size, structure, colour, mood and other details. Mood boards are physical or digital collages that allow the designer to define and visualise a coherent design concept. When used at the start of a project the customer is given an insight into the design.



Mood boards are used not only by designers but also stylists, interior decorators, home stagers, photographers, marketers, wedding and event planners and bloggers. In the future designers will use more AI generated renderings to create mock-ups and virtual tours.

Social Media

Pinterest and Tumblr are two of the biggest image-based social media platforms. They provide inspirations for design, colour scheme and what is on-trend. Both sites are easy to navigate and search with the advantage of saving inspiration quickly.



Brainstorming

Have an ideas discussion with others. Brainstorming stimulates free thinking and expands the problem space. No idea is rejected as it may lead to an inspiration or solution. Later proposed ideas are added to or discarded.

The Internet

The Internet has revolutionized many aspects of our daily lives. Designers use it as an invaluable source of information and inspiration. The internet opens up the world without leaving our desk.

Design is all around us. New design is a result of building on past design and improving it through inspiration.

All designers have creative ruts when they are not being creative. This is when they need to give the ideas the sleep test, walk away from it or talk through it with someone else.

Resources for Design Ideas And Inspiration:

- **Pinterest** Pinterest is a free social media platform that allows users to curate images and videos onto digital Pinterest boards. It's also a fantastic way to create a mood board for a project and add in multiple images and links to use for inspiration. <https://www.pinterest.com.au/>
- **Muzli** - design inspiration for graphic design, website design, design features, photography and more <https://muz.li>
- **Behance** is a website to find design inspiration. The large assortment of artwork makes finding specific design inspiration much easier. <https://www.behance.net/>
- **Inspiration Grid** Source for all sorts of design inspirational ideas including graphic design, architecture, and photography. <https://theinspirationgrid.com/>
- **Moodboard** - Start with a blank moodboard or choose one of the starter templates. <http://www.gomoodboard.com/>
- **Canva** allows you to create and share mood boards. Templates are available. <https://www.canva.com/create/mood-boards/>
- **Nature** – look at the world around you for shapes, colors, and textures in everyday things.

REFERENCES:

<https://www.waveformlighting.com>
<https://www.flexfireleds.com/>

