



**Crookwell
Academy of
STEM
Excellence**

ASE



Term 2, Week 9

Hi All

Welcome to our first e-newsletter for 2020.

This newsletter is designed to help our SISP CASE schools and staff to stay up to date with SISP events, local and beyond) professional learning and information on general STEM topics. Please feel free to distribute to members of your staff who might benefit.

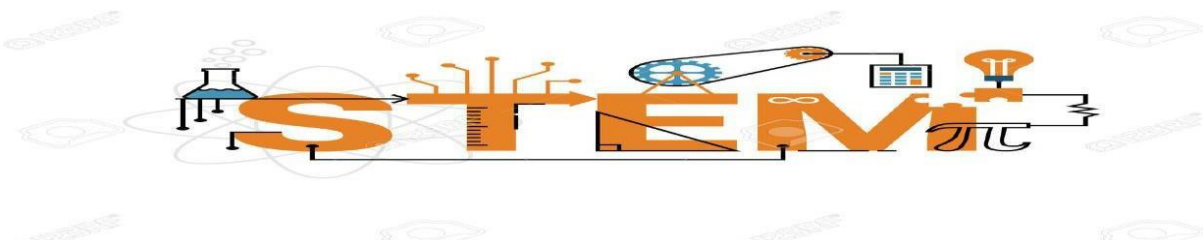
We are currently planning for Semester 2, particularly how we can best support our CASE schools moving forward in the new normal. We will be sending more regular communications to keep you up to date.

A major change is that we will sadly only have Camilla's services as Industry Liaison Officer for 1 day per week. Even so – she will still be available to organise virtual and in-school industry visits – we are also planning for onsite visits to certain industry sites – and to this end we'll keep you posted!

Finally, we would love your feedback and contributions! If you are doing something fabulous in STEM in your school then we'd love to share it with our SISP – CASE community. Or if you have a need for a resource or some curriculum support – get in touch!

Regards,

Ingrid, Louise and Camilla

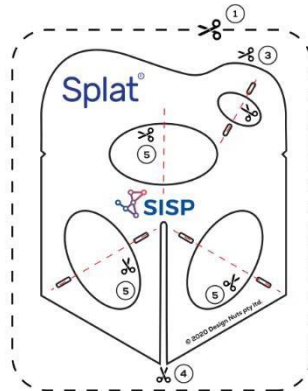


CSU Grant

Recently, the team in the Southern Inland received a \$1000 grant from CSU to distribute Splats to a number of schools in our region. The focus of the grant was equity and access, and the Splats were a perfect fit, given a lot of students in our region do not have access to reliable internet (we emphasised that Splats are a tool that do not rely on any internet). [Check out our media release here.](#)

FREE Splat Tool Download

The SISP program and our partners at SPLAT 3D have provided 5000 free downloadable SPLAT tool templates. These are available to download from the [STEM2020On Demand website](#). Teachers would need to register for On



Demand If they have not already done so.

These templates allow students to produce their own SPLAT tool to be used at home and can access over 70 additional online resources to support the use of the tool. The splat tool is also utilised in a number of our STEM units of work developed by CASE.

INTERNET OF THINGS (IoT) TPL

Kylie from design Nuts n Bolts Design is offering 30 places for an online course on the IoT. This course

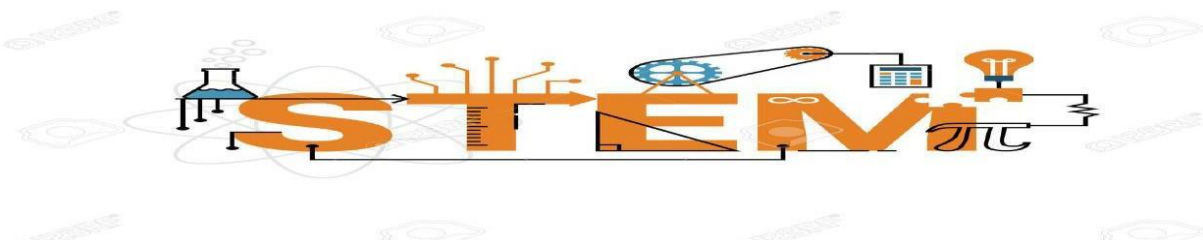
will attract NESA hours. The [link](#) to secure your place will be available at the start of T3. This is a Google sponsored opportunity.

READY-MADE STAFF DEVELOPMENT WITH STEM 2020 ON DEMAND

Have you planned your school's Term 3 Staff Development day yet? The [STEM 2020 On Demand](#) website includes a range of ready-made video resources to support staff development in innovation, curriculum and education, and is applicable across primary and secondary schools. Featuring content presented by world-renowned experts and acclaimed Australian thought-leaders, [STEM 2020 On Demand](#) offers the opportunity to access keynote videos, practical workshops, a vibrant Q&A session, and useful resource videos across a range of topics.

Be awed by **Sir Ken Robinson's** thought-provoking keynote - Revolutionising Education from the Ground Up. Learn new strategies to increase girls' participation in STEM with Australia's Women in STEM Ambassador, **Professor Lisa Harvey-Smith**. Open your mind to the possibilities the intersection of STEM and humanity have for our future with biomedical engineer and futurist, **Dr Jordan Nguyen**. Be inspired by **Dr Alan Finkel**, **Felicity Furey**, **Dr Karl Kruszelnicki**, **Adam Spencer** and many more with this **FREE**, online and on demand website.

Produce your own staff development day and custom-design it specifically for your schools



needs by selecting from the many video resources available for FREE is on the [On Demand](#) website. Present videos to a large group, or schedule the content for smaller break-out groups to focus on specific topics or conduct workshops. The site also allows for teachers to explore other areas of interest at different times which suit them.

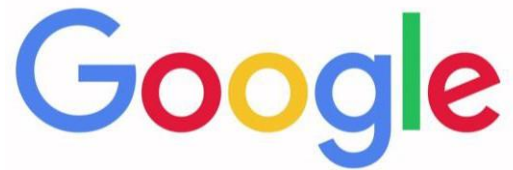
To access the [STEM 2020 On Demand](#) content for your Term 3 Staff Development Day, [REGISTER HERE](#).

For more information visit www.stem2020.com.au.



Our friends from the Mawson’s Hut Foundation have produced an informative video on Antarctica and different resources that are available to support Antarctic programs in your school. This includes the Antarctic Bus that toured last year. Watch this Informative video by clicking [here](#). I’ve made some enquiries as to the bus’s availability to visit us in.

Google Education Grants



The Crookwell Academy of STEM Excellence has again been the beneficiary of a Google Education Grant and we will be looking to run a number of twilight and full day professional learning opportunities for our teachers.

We have not confirmed the PL topics at this stage as we are after suggestions from our schools in regard to need. ***Please forward suggestions to Louise or Ingrid.***

Some suggestions - How to produce quality cross-curricula programs, Google Education Tools & Tinker Time.

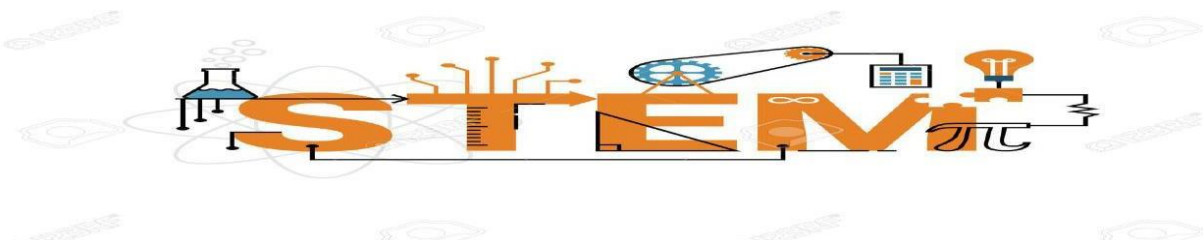
STILE

“Stile blends interactive science lessons, science news stories and hands-on investigations to empower students to observe, think, write, and argue like real scientists and engineers.”

As discussed last week, as part of their "Leading Educational Continuity" program the NSW Department of Education will provide access to Stile for the remainder of 2020. To register, Principals simply needs to visit the 3rd Party Software page via the DoE portal and submit the form provided.

[Click here to sign up](#)

Below are two examples of really awesome Stile Units designed for primary students to get their creative juices flowing!



Innovation Generation - Investigating Sustainability



Engineering Design Process Template



CASE Lending Library

Our Lending Library will be ready to go by Day 1 Term 3! A link will be forwarded to you so that you can start borrowing.

Meanwhile check out what's available:

- Microbits
- Littlebird microbit kits
- Wind turbines Set A
- Solar Cars
- Go Pro Kits
- DRONES - Mambo
- DRONES- Mission
- Vex Robots SET A
- iPADS Set A
- Codey Rocky
- Mini spheros
- Doodle Create
- SPLATS

Q and A with Dr Karl

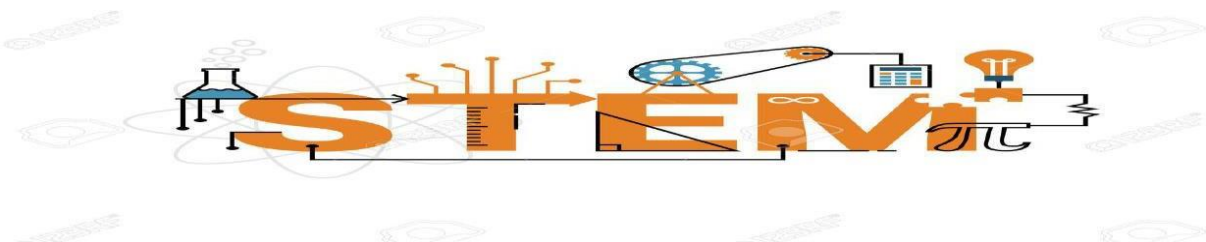


A master of all trades, Dr Karl Kruszelnicki is a qualified scientist, doctor and engineer whose fun-loving personality led him to become a well-known author and science communicator.

All schools can book Dr Karl for such sessions through his website <https://drkarl.com/qanda-with-dr-k/>.

Industry Live Feeds

Last week Crookwell Public school students were treated to a live zoom session with Isabel and Leo from the Gullen Range Wind Farm. Students have been using STELR wind turbine kits to develop working models to solve problems on supplying energy to various inventions. Leo gave the 3 classes of Yr 5 and 6 students a fabulous insight into the workings of a local wind turbine then finished with a lively Q and A session. If you would like a live industry experience let us know!





STEM Education Summit 2020



Our friends at Tech Explorations have been working on a new virtual summit dedicated to STEM Education. It's called the "[STEM Education Summit 2020](#)".

[28 amazing speakers](#) will come together to share their [best insights](#) on the technologies, methodologies, and philosophies they use to teach and inspire the next generation of amazing humans. This Summit consists of [23 presentations](#) that explore topics on Education in a Changing World. The Summit will go "live" on **Saturday, June 27, Australian Eastern Time.**

Over **June 27 and 28**, you will be able to watch all presentations, free of charge.

