

Professional Development



in **Technology and STEM (TAS) education**

Coding for eTextiles

adding deep digital technologies to traditional projects.

In **Castle Hill** on the **2nd of July 2019**

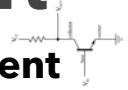
6 hours of training. All meals and training materials included.

Register for courses and see more details at dontpanic.net.au and selecting from the courses offered.

Don't Panic STEM curriculum support

Technology Teacher Professional Development

by Peter and Ruth Thompson



Introduction to coding in e-textiles. This course is aimed at the complete beginner to coding but assumes a knowledge of how to create a circuit using e-textiles components. The course will include an introduction to block programming and the concepts of Computational and Algorithmic thinking using Scratch 3.0 as a precursor to using Blocklyduino and Tinkercad circuits to program, simulate and download the program onto a small microprocessor. There will be an opportunity to explore some digital manufacturing options.

The link to text based coding will be made explicit and simple.

This is a low-cost entry appropriate to schools using free software for simulation and experimentation.

This workshop will address Materials, Engineering and Digital outcomes of the 2019 Technology Mandatory syllabus.

Course costs include 1 class set of components (Battery pack, download cable, microprocessor, LEDs) for use in the classroom, enough for 22 students + 1 teacher.

Targeted concepts are Project Based Learning, Design Thinking, Computational and Algorithmic thinking and Integrated Learning.

STEM skills are identified as being crucial to Australia's prosperous future.

When: Tuesday 2nd July

Where: Castle Hill RSL

Time: 8:30 to 4:00 pm

Cost: \$480 plus GST inc resources

Contact: Ruth@DontPanic.net.au

Don't Panic is endorsed to provide NESAs Registered Professional Development for teachers accredited at Proficient Teacher. Completing the e-Textiles course will contribute 6 hours of QTC Registered PD addressing 3.3.2, 3.4.2, 6.2.2, 6.4.2 from the Australian Professional Standards for Teachers towards maintaining Proficient Teacher Accreditation in NSW.

