

# Professional Development



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

Coding for eTextiles

**Block coding to Text in one day**

adding deep digital technologies to traditional projects.

**Newcastle** Saturday 25th July

**Wagga Wagga** Wed 5th August

**Campbelltown** Fri 14th August

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

Register for courses and see more details at [dontpanic.net.au](http://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 Tinkercad circuits to program, simulate and download the program onto a small microprocessor. There will be an opportunity to explore some digital manufacturing options. This mini-arduino provides a GREAT stepping stone to more advanced work but will meet the requirements of Digital Technologies.

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. It is relevant to all materials, not just textiles. eg Timber, Acrylic, Card, Paper, Polypropylene.

**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.

Time: 8:30 to 4:00 pm

Cost: \$480 plus GST inc class set of components

Contact: [Ruth@DontPanic.net.au](mailto:Ruth@DontPanic.net.au)

Don't Panic is endorsed to provide NESA 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.

