

### Striding into STEM on the plateau

Dundurrabin Public School has focused on the implementation of STEM across the whole school from Kindergarten to year 6 in a small school setting. We have used quality texts in the younger years to support scientific thinking as well as building a growth mindset across all grades to equip students to take on the challenges that STEM offers. We also developed student skills to ensure success for all. The primary objective was to introduce STEM across the whole school, building the capacity of our teachers to effectively plan for and deliver STEM learning experiences for our students.

Students participated in a variety of mini STEM challenges that were linked to topics of study across the Key Learning Areas. These included Wind Powered Boats, Zen Gardens, Tree Houses, Shoebox Solar Ovens, Boomerangs, Volcanoes and Wind Powered Vehicles. We then moved to a whole school real life project, which is in its infancy.

	Early Stage 1	Stage One	Stage Two	Stage Three
<b>Science and technology outcomes</b>	STe-1VA STe-2VA STe-4WS STe-5WT STe-6NE STe-7NE STe-9ME STe-10ME	ST1-1VA ST1-2VA ST1-4WS ST1-5WT ST1-7PW ST1-8ES ST1-9ES ST1-11WS ST1-12MW ST1-13MW	ST2-1VA ST2-2VA ST2-6PW ST2-7PW ST2-8ES ST2-12MW ST2-13MW ST2-14BE ST2-16P	ST3-1VA ST3-2VA ST3-4WS ST3-5WT ST3-9ES ST3-12MW ST3-13MW ST3-14BE ST3-16P
<b>Mathematics outcomes</b>	MAe-1WM MAe-2WM MAe-3WM MAe-4NA MAe-5NA MAe-9MG MAe-10MG MAe-11MG MAe-13MG MAe-14MG MAe-15MG MAe-17SP	MA1-1WM MA1-2WM MA1-3WM MA1-4NA MA1-5NA MA1-9MG MA1-10MG MA1-11MG MA1-13MG MA1-14MG MA1-15MG MA1-17SP	MA2-1WM MA2-2WM MA2-3WM MA2-4NA MA2-5NA MA2-6NA MA2-9MG MA2-10MG MA2-11MG MA2-12MG MA2-13MG MA2-14MG MA2-15MG MA2-18SP	MA3-1WM MA3-2WM MA3-3WM MA3-4NA MA3-5NA MA3-6NA MA3-9MG MA3-10MG MA3-11MG MA3-12MG MA3-13MG MA3-14MG MA3-15MG MA2-18SP

### Statement of impact

This initiative has inspired teachers to delve into the world of STEM, which has in turn inspired a whole generation of our learners. We have seen high engagement from all students and some impressive thought processes and development of skills as students used critical thinking, communication, creativity and collaboration to find solutions to a variety of problems. We have shared the enthusiasm for our journey with the wider community and know that this is only the beginning of an incredible journey into STEM education.

#### For more information

**Katrina Sangster** | Dundurrabin Public School

**E** [katrina.sangster@det.nsw.edu.au](mailto:katrina.sangster@det.nsw.edu.au)



THE UNIVERSITY OF  
**SYDNEY**