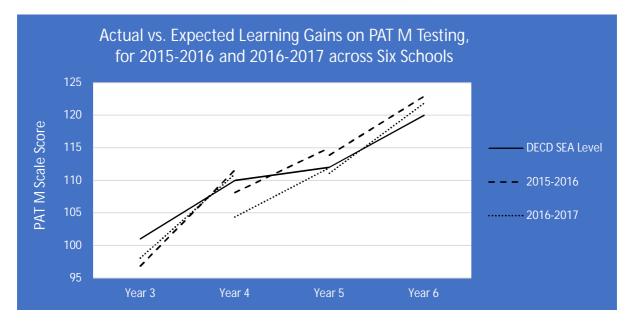
Intervention that works

Using conceptual change to fix misconceptions in mathematics for good Two-day professional learning workshop with Tierney Kennedy

Over the two-year research project, the lowest 20% of students across six schools gained an **additional 12 months of mathematics** over and above the department expectations **for every year** of teaching, as measured using PAT M. In two years, students progressed nearly four and a half years in mathematics.





When students fall behind in mathematics, it can be difficult to know what to do. This workshop provides **real answers** to some of the most challenging parts of teaching, backed up by improvement data from both PAT maths and NAPLAN.

Involving real students from the very start, this course begins with a **live lesson** in which Tierney Kennedy diagnoses and fixes misconceptions in key number concepts using conceptual-change questioning. Teachers analyse both the understanding of the students and the questioning techniques employed before trialling the approach in real classrooms on the second day.

Intervention that works

Where and When

Dates:	19 + 20 September 2018
Times:	8:30-3:30 both days
Venue:	Gawler East Primary School,
	Finch Road, Gawler East SA 5118
Cost:	\$495 including: catering, training manual, all training materials to use with your own staff and two of the <i>Fixing</i> <i>Misconceptions</i> books



Register at this link: https://www.backtofrontmaths.com.au/event/intervention-that-works-gawler-east-sa Limit of 40 participants for each course

Course Outline

8:00	Registration and resource distribution, for an 8:30 start.
8:30-10:00	Introduction to the approach, including effectiveness of common intervention strategies, and gathering of participant guestions and concerns
10:00-11:00	Demonstration lesson
11:00-11:30	Morning tea and networking
11:30-1:00	Diagnosing misconceptions in Quantity, Partitioning and Place Value (particularly number sense)
1:00-1:30	Lunch and networking
1:30-2:30	Diagnosing misconceptions in Multiplicative Thinking and Proportional Reasoning (particularly Fractions, Decimals and Percent)
2:30-3:30	Analysis of the conceptual change questioning used in the demonstration lesson
8:30-9:30	Planning of an intervention lesson in groups
9:30-10:30	Implementation of intervention lesson with students by teachers; Leaders stay with Tierney to do data analysis
10:30-11:00	Reflection, debrief and gathering of new questions
11:00-11:30	Morning tea and networking
11:30-1:00	Implementing intervention while still teaching everyone else: lesson structuring, appropriate grouping, extension for top students and getting everything done.
1:00-1:30	Lunch and networking
1:30-2:30	Developmental sequencing: ordering your year so that more maths sticks
2:30-3:30	Measuring and tracking student progress

About the trainer:

Tierney Kennedy consults with Education Departments, Mathematics Associations and schools throughout Australia to improve student results. She is renowned for her practical approach and research-based strategies, as well as for significantly improving the NAPLAN and PAT-M performance of schools around Australia. Tierney is also the author of the *Back to Front Maths* series.