

QASSP LEARNING

KALEIDOSCOPE MATHS

UNLEASH THE CREATIVITY OF THE MATHEMATICIANS IN YOUR CLASSROOM



WHAT YOU WILL LEARN

Mathematics is often viewed as the last bastion of traditional instruction. Research now shows we must rethink our view of students and our place in activating their reasoning mind in mathematics.

Kaleidoscope Maths supports teachers and instructional leaders to implement and maximise cognitively demanding, curriculum-aligned tasks and refine the use of teaching practices such as Accountable Talk, Shared Authority, Dialogic Maths Instruction and Learning Centred Routines.

Our students are not receptacles of content; they are the mathematicians already in our classrooms.

OUTCOMES

- ✓ Students engaged in curriculum-aligned maths tasks, keeping thinking and reasoning in their hands and minds.
- ✓ Mathematically alive classrooms with deep learning, new understandings and lasting achievement gains.
- ✓ A shift of pedagogical practice, leading to more equitable learning opportunities.



LOCATION

QASSP Leadership Centre
29 Baxter Street, Fortitude Valley
+

Online, Microsoft Teams



INVESTMENT

Members \$540 (inc. GST)
Non Members \$600 (inc. GST)



DATE

22 May 2023
Full-day face-to-face
+
7 two-hour online coaching sessions

REGISTER AT: WWW.QASSP.ORG.AU/KALMATHS

07 3852 3411

Our program consists of a one-day face-to-face workshop followed by seven two-hour online coaching sessions across a six month period.

ONE-DAY WORKSHOP

Learn about the background and research base of this approach and engage in activities to guide you to understand the true nature of mathematics and what this means for student learning. We use immersive tasks to help educators understand what a thinking mathematics classroom looks like and how Productive Struggle and Accountable Talk can be used to advance mathematical understandings.

COACHING SESSION 1 | DIALOGIC MATHS INSTRUCTION AND SHARED AUTHORITY

Analyse an example of teaching and learning and make connections between dialogic mathematics instruction and shared classroom authority.

COACHING SESSION 2 | PRODUCTIVE STRUGGLE

Understand how to consistently provide students, individually and collectively, with opportunities and supports to engage in productive struggle as they grapple with mathematical ideas and relationships to build understanding.

COACHING SESSION 3 | COGNITIVE DEMAND

Better discern high- and low-levels of cognitive demand in mathematics tasks and gain insight into the characteristics of written tasks that impact students' opportunities to think and reason about mathematics.

COACHING SESSION 4 | PURPOSEFUL QUESTIONS

Gain insight into the pedagogical practice of posing purposeful questions that create space for students to share their thinking, use and connect representations, and articulate mathematical reasoning.

COACHING SESSION 5 | LEARNER-CENTRED ROUTINES

Understand four learner-centred routines that can be used to scaffold and support students' engagement while making sense of mathematical concepts and relationships.

COACHING SESSION 6 | LESSON AND UNIT PLANNING

Learn how lessons and units are planned and structured to provide a series of appropriately challenging tasks to give all students opportunities to achieve while engaging in high thinking demand, and active use of skills.

COACHING SESSION 7 | GETTING SMALL GROUPS GOING

Engage in activities to assist all types of groups in your class to ensure equity of participation. Learn how to restart the stalled group, encourage the timid group, challenge the "quick" group, and refocus the off-task group.

NICOLA LESLIE | PRESENTER

Nicola Leslie is an experienced and passionate educator who is currently completing a master's degree in Educational Leadership. In close cooperation with the University of Pittsburgh, Nicola is working to reimagine how mathematics

is taught and experienced by learners. She believes that mathematics is for everyone and there is no such thing as being 'good' or 'bad' at maths.



ABOUT QASSP LEARNING

QASSP provides quality and customisable learning for all stages of an educator's career. This is learning for the profession, by the profession.