

MLATS CORE COURSE

- a) 10 workshops, totalling 60 hours, spread over four school terms Suitable for Reception-Year 9 teachers.
- b) Participant numbers permitting, there will be a core course specifically designed for teachers in Middle schools (years 6-9)

The MLATS Core course has been designed to give a broad overview to the learning and teaching of mathematics in Reception to Year 9 classrooms. Teachers who have the opportunity to commit ten days of professional development in mathematics in one school year will benefit most from the structure of this course.

This course aims to support participants to:

- Increase their own conceptual and procedural knowledge of mathematics
- Increase their understandings about the ways students construct mathematical knowledge
- Develop their understandings about numeracy and its relationship to school mathematics
- Develop a repertoire of classroom strategies for assessing students' mathematical knowledge and development
- Plan for all students to develop understanding of mathematical concepts
- Develop strategies for identifying students who may be at risk of not making satisfactory progress in their mathematical knowledge
- Develop a range of intervention strategies to support those students seen to be at risk

The workshop process involves participants in:

- Small group discussions
- Mathematics activities
- Time for reflection
- Collaborative planning of units of work
- Sharing classroom practice with other participants

In between workshops participants are expected to

- Read a range of relevant articles
- Trial activities in their classrooms
- Formally document their plans

Proposed Structure and timing for the 10 day Core Course

The course commences with a 3 day intensive in the January holidays. Dates can be obtained from the Coordinator

Term 1

Workshop 1 Learning and Teaching
Holidays

Mathematics

Workshop 2 Data & Pattern 1 Holidays

Sorting & classifying

Patterning

Workshop 3 Data & Pattern 2 Holidays

Expressing generalisations

Planning

Workshop 4 Data & Pattern 3 around Week 4

o Expanding investigations

O Numeracy & mathematics – What's really important?

Numeracy framework

Chance

Term 2

Workshop 5 Number Sense 1 Holidays

Mental computation

Counting

Place Value

Workshop 6 Number Sense 2 around Week 4

Base ten

Estimation

Algorithms

Times tables

Calculators

Workshop 7 Number Sense 3 around Week 7

Fractions

o Decimals

o Writing in mathematics

Term 3

Workshop 8 Space & Measurement 1 Holidays

Measuring space

Workshop 9 Space & Measurement 2 Holidays

o Time

Transformation & symmetry

Whole class sharing

Workshop 10 Space & Measurement 3 around Week 4

Location & arrangement

Money

Workshops can also be outside of these times upon request (numbers permitting)

WHOLE SCHOOL training can also be done at discounted rates for staff of 15 or more