Attention teachers of Mathematics 7 to 10 and Stage 6 Mathematics General, especially:

- Those who are relatively new to teaching mathematics in NSW
- Those who are teaching mathematics (or would like to) in an ‘out-of-field’ capacity
- Those who are preparing to teach mathematics in the near future
- Teachers who would like to make their lessons engaging and fun for their students
- Teachers of students who require additional support to meet course outcomes, such as those entering Year 7 lacking Stage 3 knowledge, skills and understanding

MANSW presents ...

FUNdamentals of Teaching Mathematically
Presented by Stuart Palmer

Come along for one day or two days of professional learning which will:

- Inspire you to teach mathematics in interesting and engaging ways.
- Equip you with ideas and resources which you will be able to use the very next day.
- Inform you about the content and intent of Stages 3, 4 and 5 of the syllabus, with emphasis on Working Mathematically and numeracy skills.
- Empower you to make some positive changes to your tests and examinations.
- Challenge you to teach for understanding using technology.
- Provide you with quirky ideas for introducing and explaining concepts.

Some use of computer technology will be included, but little experience or expertise is required.

Participants will receive a package of ready-to-use electronic files so bring a device with a USB port and the charger. Power boards will be provided.

See pages 2 and 3 for an overview of content, venues and dates

Registration fee: $137 per day, including GST, for MANSW members. ($206 for non-members)

Members must log onto the website to receive the member rate.

Concessions for full-time university students are available on request.

To register: Complete an online registration at www.mansw.nsw.edu.au/events/category/fundamentals-of-teaching-mathematically

Registration closes: One week prior to the event. Please register soon to avoid disappointment.

For more information regarding the course content email projects@mansw.nsw.edu.au
For information regarding enrolment and payment, call 02 9715 5800.

Completing each day of FUNdamentals of Teaching Mathematically will contribute 5 hours and 30 minutes of QTC Registered PD addressing 1.2.2, 1.5.2, 2.1.2, 2.2.2, 2.6.2, 3.2.2, 3.4.2, 6.2.2, 7.4.2 from the Australian Professional Standards for Teachers towards maintaining Proficient Teacher Accreditation in NSW.
Please note that a school registering one teacher for both days may choose to enrol:
  o  Teacher A for Day 1 and Teacher B for Day 2, or
  o  Teacher A for both days.

Course overview

Each day contains a mixture of:
- information for teachers about the mathematics syllabus
- ideas for successful implementation of the syllabus
- suggestions for improving teaching, learning and assessment
- demonstrations of teaching resources and classroom activities
All activities are accompanied by ready-to-use electronic resources.

Day 1

So many concepts and dot-points, so little time! Useful documents, such as:
  o  A re-shuffled version of the syllabus showing continuity from Stages 3 to 4 to 5.
  o  A scope and sequence that can be adapted for students of all abilities.
  o  A teaching program that contains links to useful electronic teaching resources.
  o  Information for students and parents about the content and intent of the syllabus.

Integers: Why is the product of two negative numbers positive?
Fractions, decimals and percentages (with and without a calculator).
Ratios and rates: All you need is four boxes, three numbers and red pen.
Statistics and probability: Investigations that lead students to the mathematics.

Day 2

Assessing student achievement.

The most important aspects of mathematics a ‘struggler’ needs to know by the end of Year 10 to be prepared for Stage 6 Mathematics General and life as a numerate citizen.

What is numeracy? How to address it.

Making the leap from number to algebraic expressions and equations.

Using a linear relationship as a model of an authentic everyday situation.

How to introduce non-linear relationships using a ‘scenario’ and an A3 sheet of paper.

Estimating and measuring length, area, mass, capacity, volume and time.

Trigonometry: What does the statement \( \sin 30^\circ = 0.5 \) actually mean?

Geometry: Making the transition from investigation to formal deductive reasoning.
| Venues and dates: | Blacktown RSL Club  
|                 | Second Avenue  
|                 | Blacktown NSW 2148 | Day 1: Tues Feb 23 2016 (8:45 am to 3:30 pm)  
| Sydney West     | Day 2: Wed Feb 24 2016 (8:45 am to 3:30 pm)  
|                 |                    | Registrations close 1 week prior |  
|                 | Campbelltown RSL Club  
|                 | Carberry Lane  
|                 | Campbelltown NSW 2560 | Day 1: Wed Mar 2 2016 (8:45 am to 3:30 pm)  
| Illawarra       | Day 2: Wed Mar 23 2016 (8:45 am to 3:30 pm)  
| Sydney South West |                    | Registrations close 1 week prior |  
| Southern Highlands |                    |  
|                 | Newcastle: Club Macquarie  
|                 | 458 Lake Road  
|                 | Argenton, Newcastle NSW | Day 1: Wed Mar 9 2016 (8:45 am to 3:30 pm)  
| Central Coast   | Day 2: Thurs Mar 10 2016 (8:45 am to 3:30 pm)  
| Hunter Hunter   |                    | Registrations close 1 week prior |  
|                 | Wauchope Country Club  
|                 | King Street  
|                 | Wauchope NSW 2446 | Day 1: Thurs Mar 17 2016 (8:45 am to 3:30 pm)  
| Mid North Coast | Day 2: Fri Mar 18 2016 (8:45 am to 3:30 pm)  
|                 |                    | Registrations close 1 week prior |  
|                 | Dubbo RSL Club  
|                 | 178 Brisbane Street  
|                 | Dubbo NSW 2830 | Day 1: Wed Mar 30 2016 (8:45 am to 3:30 pm)  
| Central West    | Day 2: Thurs Mar 31 2016 (8:45 am to 3:30 pm)  
| Orana Orana     |                    | Registrations close 1 week prior |  
| Far West Far West |                    |  
|                 | Wagga RSL Club  
|                 | Kincaid Street  
|                 | Wagga Wagga NSW 2650 | Day 1: Thurs April 7 2016 (8:45 am to 3:30 pm)  
| Riverina Riverina | Day 2: Fri April 8 2016 (8:45 am to 3:30 pm)  
| Murray Murray   |                    | Registrations close 1 week prior |  
|                 | Moree Services Club  
|                 | Albert Street  
|                 | Moree NSW 2400 | Day 1: Thurs May 5 2016 (8:45 am to 3:30 pm)  
| North West      | Day 2: Fri May 6 2016 (8:45 am to 3:30 pm)  
|                 |                    | Registrations close 1 week prior |  
|                 | Armidale Ex-Services Club  
|                 | 137 Dumaresq Street  
|                 | Armidale NSW 2350 | Day 1: Thurs May 12 2016 (8:45 am to 3:30 pm)  
| New England      | Day 2: Fri May 13 2016 (8:45 am to 3:30 pm)  
| North West North West |                    | Registrations close 1 week prior |  
| North Coast     | Southern Tablelands |  
|                 | Goulburn Soldiers’ Club  
|                 | 15 Market Street  
|                 | Goulburn NSW 2580 | Day 1: Tues May 17 2016 (8:45 am to 3:30 pm)  
|                 | Day 2: Wed May 18 2016 (8:45 am to 3:30 pm)  
|                 |                    | Registrations close 1 week prior |  
|                 | Bathurst RSL Club  
|                 | 114 Rankin Street  
|                 | Bathurst NSW 2795 | Day 1: Tues May 24 2016 (8:45 am to 3:30 pm)  
| Blue Mountains   | Day 2: Wed May 25 2016 (8:45 am to 3:30 pm)  
| Central West     |                    | Registrations close 1 week prior |  
|                 | Bomaderry Bowling Club  
|                 | 154 Meroo Road  
|                 | Bomaderry NSW 2541 | Day 1: Tues May 31 2016 (8:45 am to 3:30 pm)  
| Illawarra       | Day 2: Wed June 1 2016 (8:45 am to 3:30 pm)  
| Shoalhaven South Coast |                    | Registrations close 1 week prior |  
|                 | Ballina RSL Club  
|                 | 240 River Street  
|                 | Ballina NSW 2478 | Day 1: Thurs June 9 2016 (8:45 am to 3:30 pm)  
| North Coast     | Day 2: Fri June 10 2016 (8:45 am to 3:30 pm)  
|                 |                    | Registrations close 1 week prior |  

If you would like to be removed from this distribution list, please send an email containing the name of your school and your fax number to projects@mansw.nsw.edu.au.

ABN: 31 164 921 721