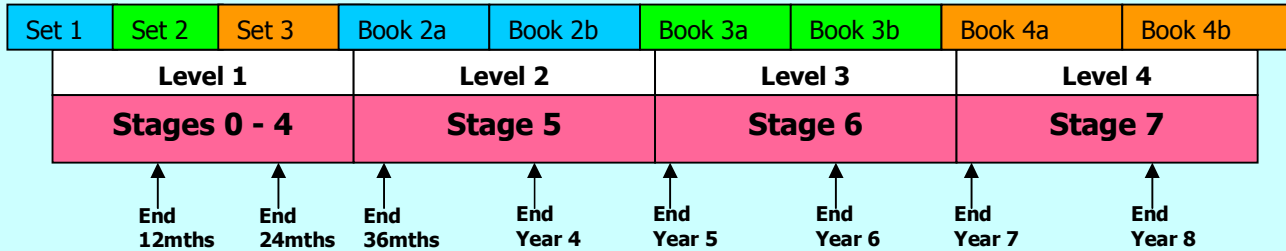




The Wilkie Way

Newsletter March 2010

Pearson Books + Curriculum + NZ Framework + National Standards =



Have you changed your mathematics programme to ensure you are now teaching the New Mathematics and Statistics Curriculum?

Apart from the obvious changes, like the name of the learning area from Mathematics to Mathematics and Statistics and having three strands rather than five, what is the difference between the old and the new curriculum?

The main difference is a pedagogical change and is illustrated by the words written before the stated achievement objectives at each level. "In a range of meaningful contexts students will be engaged in thinking mathematically and statistically. They will solve problems and model situations that will require them to....:"

While problem solving was one of the mathematical processes in the old curriculum, it was often treated as a topic in mathematics and taught for a period of a few weeks during the school year. Problem solving is now at the very heart of the mathematics and statistics curriculum. It is a way of teaching which engages students in posing questions and seeking solutions. While students still need to acquire the necessary mathematical knowledge, the emphasis is on the using and applying of knowledge to solve problems.

The numeracy project professional development focused teachers on the need to consider how students are thinking mathematically. It provided a framework setting out a progression of strategy stages and a progression for knowledge acquisition. However teaching students different mental strategies to solve addition, subtraction, multiplication and division does not constitute problem solving. Strategies taught well build student understanding of place value and a sense of number, which then has to be used to solve a problem.

Thinking is central to the whole of the new curriculum. It is a key competency. This is elaborated further into the types of thinking studying mathematics should develop – "the ability to think creatively, critically, strategically and logically."

Good quality teaching is required to develop thinking. The teacher must have the expert mathematical content knowledge and the questioning skills to promote such thinking in their students. The programme provided must include activities that require the students to be engaged with these types of thinking.

Read the full article by Charlotte Wilkinson in the Education Gazette 29 March 2010



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Professional Development One day Courses
For Term Two presented by Charlotte Wilkinson
(Please book early to avoid fully booked or course cancelations)

The following courses are offered through Otago University
Contact Darrell Latham darrell.latham@otago.ac.nz

Teacher Aides: Supporting Numeracy an introduction to the NZ number framework and how to assist students with numeracy learning Year 0 - 11

Where: **Wellington 3 May** **Nelson 4 May** **Auckland 31 May**
Hamilton 1 June **Rotorua 3 June**

Teacher Aides: Assisting Students working at Level 1 a specific focus on assisting at level 1. Games, ideas, 101 ways of doing the same thing! Resources.

Where: **Christchurch 15 June** **Invercargill 16 June**
Dunedin 17 June

Planning Junior Maths Programmes looking at how to integrate geometry, measure and statistics into a number heavy mathematics programme to assist students to develop the appropriate mathematical language and make connections between the strands.

Where: **Rotorua 2 June** **Christchurch 14 June**
Dunedin 18 June

The following course is offered by Waikato University. See "Choices" for contact details and booking onto the course.

Implementing the New Curriculum – Inquiry Learning for Maths the problem solving and statistical enquiry cycle of the new curriculum fit the model for inquiry learning and provide opportunities to gather evidence for National Standards. For teachers of years 1 – 8.

Where: **Gisborne 12 May**

From 16 March to 25 April the Wilkie Way Offices will be closed due to a trip to the UK.

All products are available through outlets – Every Educaid Catalogue, SmartKids Catalogue

Retail Stores: Hamilton and Tauranga Education Centres, Learning Network (Henderson)

Poppies Bookshop (Gisborne)

Orders made after March 12 through the website will not be delivered until after April 25



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Have you signed up for your free seminar?

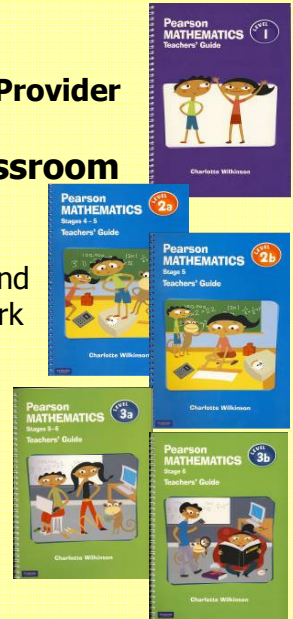
Pearson NZ

A Technology and Education Solutions and Services Provider

**Using Pearson Mathematics in your school, in your classroom
First Choice For Success**

Pearson Mathematics is a structured framework following the strategy and knowledge acquisition progressions as given in the NZ number framework and all the strands in the New Zealand Curriculum. The teachers' guides enable teachers to plan an appropriate programme of learning for the students in their class and have the time and support to further their own professional knowledge as an adult learner does – just in time not just in case.

Can you afford to miss this opportunity to find out more?



These seminars will be held from 4pm to 5.30pm in the following centres in Term 1 and 2
Contact Jane.Huston@pearsoned.co.nz for more details.

March

Auckland North – 10 March

Auckland East 11 March

Auckland Central/South 17 March

Auckland West 18 March

**Level 4
due July
2010**

May

Nelson 4 May

Gisborne 12 May

Taupo 26 May

June

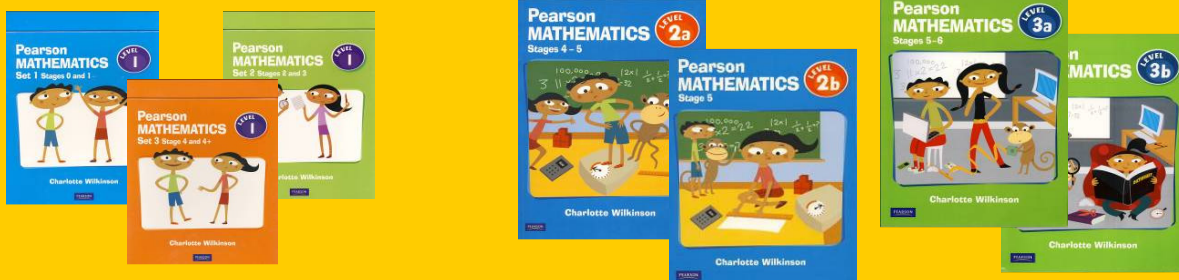
Hamilton 1 June

Christchurch 14 June

Dunedin 17 June

More Locations in Term 3 – Tauranga, Wellington, Palmerston North, New Plymouth and Napier

The pupil texts provide some practice activities for strategy and knowledge acquisition but also provide investigations and mini projects for using their mathematics to solve problems and model situations. Each chapter from level 2 to 4 is referenced to further activities in Figure it Out. Together these activities will provide opportunities for gathering evidence to make overall teacher judgments when assessing against National Standards.





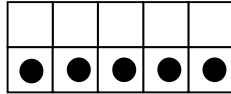
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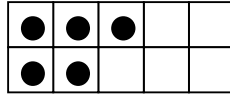
Some teasers for your classroom or just for yourself!

Doubles tens frames are being added to the free resources on the Wilkie Way Website:

www.ncwilkinsons.com/wilkieway



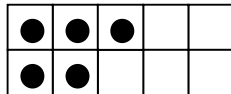
Quinary pattern



Doubles pattern

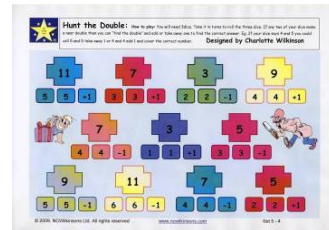
Level 1 Patterns and Relationships

Use doubles tens frames to explore patterns using doubles and one more, one less knowledge.



$$2 + 2 + 1 = 5$$

$$3 + 3 - 1 = 5$$



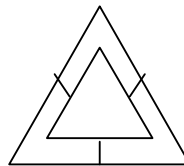
See Wilkie Way Games Set 5 Game 4

Wendy Worm lives in the Square Vegetable Patch with an area of 9m. She can wiggle 20cm every minute.



How long will it take Wendy Worm to wiggle all around the edges of the vegetable patch?

A spider spins 5cm of thread every minute. How long will it take her to spin enough thread for a web made of concentric equilateral triangles?



Each triangle is 1cm inside the outer triangle and joined in three places. The largest triangle has sides of 10cm, the smallest 2cm.



Let me know if there are any issues or subjects you would like more information or ideas on let me know on charlotte@ncwilkinsons.com

If you do not wish to receive this newsletter please hit reply and ask to be removed from the list. Or email charlotte@ncwilkinsons.com