

A guide to the teacher professional resources available in the members area of

wilkieway.co.nz

Individual subscription

\$55 (Inc GST) per annum (no automatic renewal - you will receive a reminder to resubscribe)

NZ School subscription

Cost ranges from \$60 - \$560 (+GST) dependent on school size - complete form at MORE INFO under School and Organisation Subscription

With a school subscription everyone with a school email address can create an account which will be activated.

Overseas Schools - \$660 payable via Paypal

Teacher Handbook Resources

Arithmetic Operations
Fractions, Decimals, & Percentages
Numbers & the Number System
(Handbooks available from online store)

Teacher Professional Resources

Planning Assessment

Moderation Curriculum Knowledge

Learning Progressions Professional Practice

Professional Readings

Common Practice Model Curriculum Refresh

Video Lessons

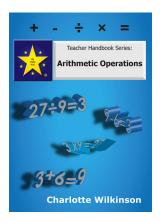
Geometric Thinking

Equipment Resources

Equipment Resources

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Teacher Handbook Resources



Arithmetic Operations

All resources referred to in the activities in the book.

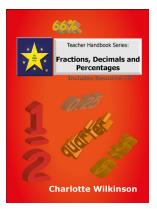
Commutative pair flashcards for all multiplication tables
Alternative Hundreds boards - creating patterns
Multiplication circles - geometric patterns for multiplication tables
Number strips - for arrays and using the distributive property
Twenties frames - x 2 commutative property

The handbooks are designed to build teacher knowledge in the context of teaching and learning.

Handbooks are available from the online store

\$45 each

Set of 3 for \$120



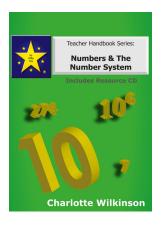
Fractions Decimals & Percentages

All resource numbers are listed in the relevant chapter in the book

81 Worksheets Building fractional knowledge (includes answers)

60 Worksheets Using fractions decimals & percentages in word problems (includes answers)

(These resources also come on a CD with the book)



Numbers and The Number System

All resource numbers are listed in the relevant chapter in the book

110 Worksheets Building place value knowledge

20 Worksheets Word problems using specific place value knowledge

(These resources also come on a CD with the book)

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Planning

Folder Learning Outcomes: Learning outcomes for Addition & Subtraction and Whole number place value listed by learning progression Learning outcomes for Multiplication, Division & Fractions listed by learning progression

These give you a learning sequence from which to plan your next learning steps for your students.

They are also linked to Maths Aotearoa, Wilkie Way and Pearson Mathematics resources.

All plans are in word files to be used and amended as required for the particular class you are working with.

Populated Plans Using NZ Maths, Pearson Mathematics, Maths Aotearoa and Wilkie Way

Number & Geometry	Level 1 - 2	Level 2 - 3	Level 3 - 4	
Number & Measure	Level 1 - 2	Level 2 - 3	Level 3 - 4	

Folders Year 1 & 2 Year 3 & 4 Year 5 & 6 Year 7 & 8

Planning templates will be updated to reflect the refreshed curriculum

Each folder contains:

- 1. Overview Plan (Curriculum coverage plan 2 year cycle)
- 2. Unit plans one for each term over the two years (8 unit plans)
- 3. Curriculum support (resources collected from other areas of the website to support the building of teacher knowledge specific to the year groups)
- 4. Student tracking sheets

Planning to Cause Learning template

Assessment

Student tracking sheets - in a hierarchical layout (most useful for teachers) and in a "brickwall" layout to represent interconnected content building up. (useful for student self directed learning) *Note: The brickwalls work from the bottom of the page upwards.*

Baseline Assessment - language & number knowledge version and just number knowledge version

Guide to using learning progressions for making a best fit assessment decision

Assessment Screen overview and teacher guides to assessment screens.

Assessment screens are available from the online store and a discount price is available on pre orders in term 4)

Mathematical Knowledge & Skills Level 1, Level 2, Level 3, Level 4

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Moderation

The Learning progression framework for mathematics - linking the framework to the curriculum

Teacher Guides: Using the learning progression framework for moderation

Using the learning progression framework for making assessment decisions

These resources have been designed to assist schools with understanding the learning progressions and using the exemplars to make assessent decisions

These booklets can be used in staff meetings or syndicate meeting. They can be led by the school (See facilitator guides) or the school can request a online workshop with myself. (There is a charge for the workshop)

Additive progressions	signposts 1 - 5	signposts 4 - 7
Algebraic progressions	signpost 1 - 3	signposts 3 - 6 (Patterns & relationships, Using symbols & expressions)
Geometric progressions	signposts 1 - 3	signposts 3 - 5
Measurement progressions	signposts 1 - 3	signposts 2 - 4 signposts 4 - 7
Multiplicative progressions	signposts 1 - 3	signposts 2 - 5 signposts 3 - 6
Statistical progressions	signposts 1 - 3	signposts 3 - 5 (Statistical investigations, Interpreting statistical and chance situations)

Learning Progressions

Learning progressions overview chart

Wilkie Way progressions:

Addition & Subtraction

Multiplication & Division

Fractions

Place Value

Combined in Number Operations progressions and connections

Geometry

Measurement

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Curriculum Knowledge

Measurement

Pocket Guides: (Compiled from curriculum elaborations and units on NZMaths, Wilkie Way progressions and learning progressions framework)

- 1. Beginning Measure
- 2. Learning to Measure
- 3. Using Standard Units of Measure (includes historical information on the metric system)

Measurement progressions

Developing linguistic and conceptual measurement

Powerpoint: Alignment of Measurement concepts with number concepts

Geometry

Pocket Guides: (Compiled from curriculum elaborations and units on NZMaths, Wilkie Way progressions and learning progressions framework)

- 1.Beginning Geometric Thinking
- 2. Developing Geometric Thinking
- 3. Further Developing Geometric Thinking

Geometric Progressions

Statistics

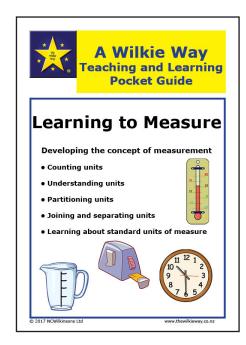
Pocket Guides: (Compiled from curriculum elaborations and units on NZMaths, Wilkie Way progressions and learning progressions framework)

- 1.Beginning Statistical Thinking
- 2. Developing Statistical Thinking
- 3. Further developing Statistical Thinking

Powerpoint: Getting Sorted, Statistical Investigations

Powerpoints:

Building mathematical knowledge Fractions & the learning progressions Number and measurement connections Place value:The heart of the system Getting Sorted, Statistical Investigations Teaching & Learning Basic Facts



Number & Algebra

Teaching number sense level 1
Addition & subtraction essentials levels 2 - 4
Addition subtraction progression
Multiplication & division essentials levels 2 - 4
Multiplication & division progression
Multiplicative development
Fraction progression
Number operation progressions
Place value matrix
Place value progression

Powerpoints

Place Value: The heart of the system Teaching and Learning Basic Facts

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Professional Practice

Powerpoints

Curriculum Knowledge

Building mathematical knowledge Fractions & the learning progressions Number and Measurement connections Place value: the heart of the system Getting Sorted, Statistical Investigations Teaching & Learning Basic Facts

Maths Literacy

Reading in maths Speaking and listening in mathematics Writing in mathematics

Play-based Learning

Developing mathematical thinking through play Mathematics learning through play Planning for mathematics in a playbased environment

A maths diet for able mathematicians
Arrangement for learning
Common stumbling blocks
Parent information - to be numerate
Reviewing your numeracy curriculum
Assisting the learning of numeracy (teacher aides)

Professional Readings

Arithmetic Properties

Connecting the documents (powerpoint)

Cycle of pedegogical practice

Differentiated learning

Effective teacher rubric

Learning to read mathematical problems

Learning to use symbols

Learning progression framework for mathematics

Managing maths lessons

Solving proportional problems

The mathematics teaching and learning cycle

Common Practice Model

Designed as teacher learning modules for individual or preferable syndicate or school discussion starters

Pedagogical Approaches

- 1. Communicating pedagogies
- 2. Supporting student relationships with maths

(Further modules in development)

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Curriculum Refresh

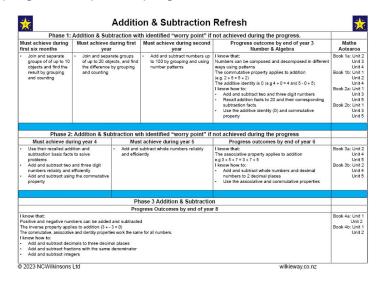
Collecting together anything to do with the refreshed curriculum. The new tracking sheets will also be filed under assessment. Progression pathways from the progress steps and progression outcomes for:

Phases 1 - 4

- Addition & Subtraction
- Algebra
- Fractions
- Multiplication & Division
- Place Value

Other strands Phase 1 Other strands Phase 2

More support will be added as we know more.



Video Lessons

Geometric thinking - Each folder contains a video clip, teacher notes and follow up activities

Phase 1

Signpost 1 (level 1): Ordering

Signpost 2 (level 1 - 2): Left & Right Turns

Phase 2

Signpost 3 (level 2): Using Grid References & Grid References and Compass Points

Signpost 4 (level 3): Lines, Angles & Triangles Drawing Plane Shapes

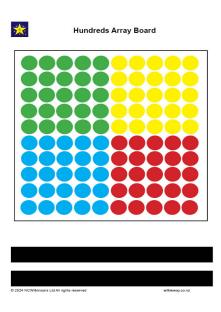
Phase 3

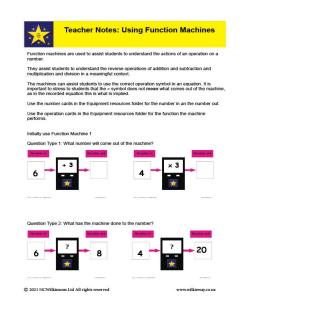
Signpost 5 (level 4): Bearings

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Equipment Resources

- Digit Cards (0 9)
- Numbers cards (to 100)
- Fraction Cards
- Function machines
- Place Value Houses
- Base 10 Money (\$1 \$1000)
- Bead Frames
- Decimats
- Doubles Tens Frames
- Hundreds Array Board
- Number Strips
- Twenties Frames





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