

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

wilkieway.co.nz

## Individual subscription

\$50 per annum (no automatic renewal - you will receive a reminder to resubscribe)

## **School subscription**

(cost depends on school size) With a school subscription everyone with a school email address can create an account which will be activated.

# **Teacher Handbook Resources**

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

# **Teacher Professional Resources**

Planning Moderation Learning Progressions Professional Readings Common Practice Model Assessment Curriculum Knowledge Professional Practice

## **Teacher Handbook Resources**





## 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 knowledge20 Worksheets Word problems using specific place value knowledge

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

2.

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 Number & Measure	Level 1 - 2 Level 1 - 2	Level 2 - 3 Level 2 - 3	Level 3 - 4 Level 3 - 4	Planning templates will be updated				
Folders Year 1 & 2	Year 3 & 4	Year 5 & 6	Year 7 & 8	to reflect the refreshed curriculum				
Each folder contains:	<ol> <li>Overview Plan (Curriculum coverage plan - 2 year cycle)</li> <li>Unit plans - one for each term over the two years (8 unit plans)</li> <li>Curriculum support (resources collected from other areas of the website to support the building of teacher knowledge specific to the year groups)</li> <li>Student tracking sheets</li> </ol>							

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 Screen overview and teacher guides to assessment screens.

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

## Moderation

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

Teacher Guides:Using the learning progression framework for moderationUsing 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

# **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

#### **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



#### Geometry

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

Beginning Geometric Thinking
 Developing Geometric Thinking
 Further Developing Geometric Thinking

**Geometric Progressions** 

## 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

# **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		<b>Maths Literacy</b> Reading in maths Speaking and listening in mathematics Writing in mathematics		<b>Play-based Learning</b> Developing mathematical thinking through play Mathematics learning through play Planning for mathematics in a playbased environment
Teaching & Learning Basic Facts		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 (tea	ache	er 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)