



A guide to the classroom resources available in the members area of

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Numeracy Games

Numbers to 10	Te Reo Maori Games
Add & Subtract to 10	Add & Subtract to 20
Counting in 2s, 5s & 10s	Multiply & Divide
Arithmetic Games	

Foundation Resources

Cardinal Number	Ordinal Number
Sorting & Matching	Join & Partition
Number Charts 1 - 10	Writing Numerals
Creating Number Stories	Equality
Visual Memory	Teacher PLD

Learning Support

Maths Gym

Learning Multiplication Tables

Context of Money

Addition & Subtraction Concepts
Multiplication & Division Concepts

Maths Aotearoa Practice Workbooks

Support for Book 1a	Support for Book 1b
Support for Book 2a	Support for Book 2b
Support for Book 3a	Support for Book 3b
Support for Book 4a	Support for Book 4b
Learning Outcomes	

Student Resources

Problem Based

Concept Word Problems	Graduated problems on a theme
Challenges	Rich Learning Tasks
Maths from Stories	Special Occasions

Topic Based

Addition & Subtraction	Place Value
Multiplication & Division	Algebra
Fractions, Decimals & %	Financial Literacy
Geometry	Measurement

Numeracy Games

These are most of the original dice and counter games. A few of the games are missing because they are still available for purchase as ready laminated board games. (See the online store)

Learning about numbers up to 10 Original **Set 1** Numbers to 6, **Set 2** Joining & partitioning and pairs to 5, **Set 3** Sequencing & ordering

Addition and Subtraction to 10 Original **Set 4** 5+ knowledge **Set 5** Doubles to 12 **Set 6** Pairs to Make 10

Addition and Subtraction to 20 Original **Set 7** Teens numbers **Set 8** Doubles to 20

Counting in 2s 5s and 10s Original **Set 10** Counting in 2s & 2x table **Set 11** Counting 5s & 5x table

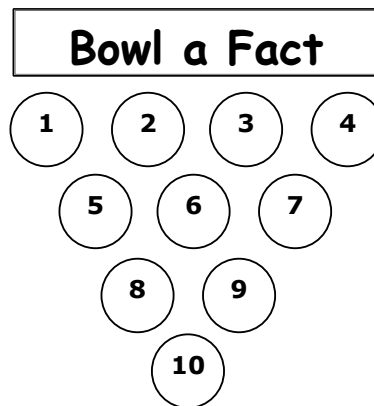
Set 12 Counting in 10s & 10x table

Multiplication & Division Games Games for tables x3, x4, x6, x7, x8, x9

Te Reo Maori Versions Sets 1 - 12 (total 60 games)

Arithmetic Games:

- Bowl a Fact
- Bridges 1
- Bridges 2
- Multiplication Madness
- Poison 18
- What number is missing







Roll three 1 - 6 dice
Use the numbers rolled and any operation or combination of operations to make a number 1 - 10 to bowl that fact.

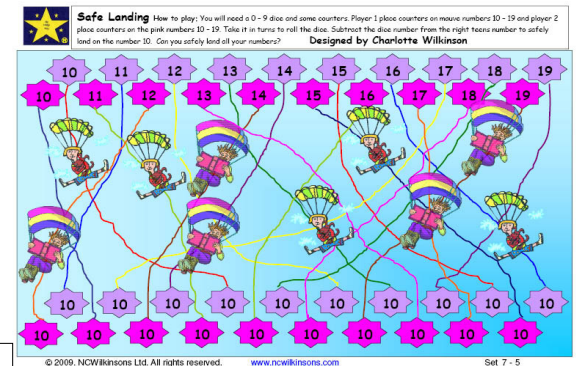
Variations of the rules:

1. The numbers you roll are automatically bowled
2. You can use just two of the numbers rolled to bowl a fact
3. You must use all three numbers rolled to bowl a fact.

Bridges 1

Place your dominoes in the boxes to make the bridges for these additions.

27	30	34	
16	20	24	
55	50	56	
37	42	45	



Learning Support

Maths Gym - Learning Multiplication Tables

A series of lessons set out in workbooks with a coaching session, warm up, workout and cool down for a structured approach to learning the multiplication and division facts.

Agility course one - practice for 2s, 5s and 10s

Agility course two - practice for 3s, 4s, 6s, 7s, 8s, 9s, 11s, 12s

The Wilkie Way
Maths Gym

Multiplication & Division

Name _____

Class _____

**Session One
Understanding Arrays**

- Coaching Session
- Warm Up
- Workout
- Cool Down

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Using the context of money a variety of different types of word problems, including discussion points for problem comprehension

Addition & Subtraction Problems (20 problems) Addition - joining sets, plus more
Subtraction - take away, difference

Multiplication & Division Problems (50 problems) Multiplication - equal structure, allocation/rate, rectangular array, multiplicative comparison
Division - equal structure, allocation/rate, rectangular array, multiplicative comparison, unit fractions
Multiplication & Division - non unit fractions

Foundation Resources

This section is specifically for years 0 - 1 and special needs students in other year groups requiring resources to assist getting started in formal mathematics.

Cardinal Number: Matching numerals, number names and quantities 1 - 6 (English & Te Reo Maori)

Matching cards - numeral to quantity 1 - 10

Dice Patterns cards and Teacher guide for this resource

Doubles tens frame

Sorting & Matching

Numbers to 5 & Teacher Guide for this resource

Picture Cards

Shape & Colour

Number Charts 1 - 10 (English only & Bilingual (Te Reo Maori) versions for printing in A3 number, words, picture and partitions (basic addition facts)

Creating Number Stories: Teacher guide - four activities with further suggestions

Baskets & apples, Caves & dinosaurs, Flowers & butterflies, Frogs & logs, Hives and bees, Ponds & ducks

Story recording sheets

Visual Memory

Teacher guide for this resource

Shape or colour x 3 shape & colour x3, shape or colour x4, shape & colour x4, shape or colour x5, shape & colour x5

Ordinal Number

Number cards - Digit cards for numbers 0 - 100

Number strips for numbers 1 - 10

Ordering numbers to 6 - before, after, between baseboards and digit cards

Number & quantity cards 1 - 10

Ordering numbers (incomplete sequences) within 20, within 50, within 100

Join & Partition

Partition pictures and numbers - teacher guide for this resource

Joining and partitioning number pairs for numbers 5, 6, 7, 8, 9 and 10

Partitioning 5, partitioning 6 and partitioning 7 baseboards (for use with counters)

Writing numerals

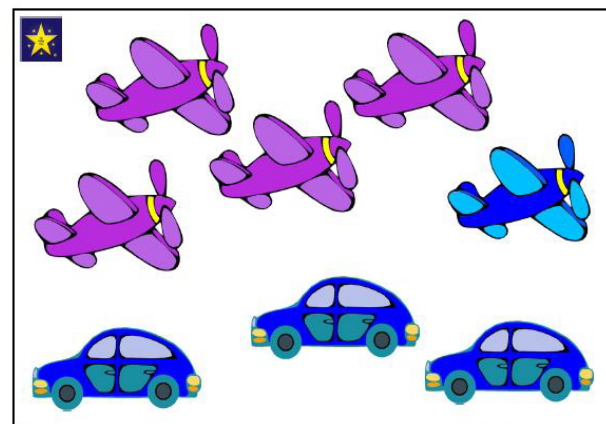
Baseboards for learning to write numerals 0 - 9

Equality

Equality Pairs & Teacher guide for using this resource

Teacher PLD

Professional resources specific to teaching at this level - Playbased learning powerpoints, baseline assessment, learning to count, tracking students at level 1, teaching number at level 1



Maths Aotearoa Practice Workbooks

This series of workbooks have been designed to support the structured progressions in the Maths Aotearoa textbooks. These workbooks provide further practice while the textbooks provide opportunities to use mathematics in rich learning tasks (mini projects & challenges). The teacher guides also provide the teacher with the understanding and guidance on how to teach the concepts with examples of what materials could be useful.

(Published by and available from edify.co.nz)

Supporting Book 1a

1. Numbers to 6
2. Ordering to 6
3. Numbers to 10
4. Ordering to 10
5. Joining & partitioning
6. Groupings to 5
7. Addition
8. Subtraction
9. Comparing numbers
10. Numbers to 20
11. Doubles to 20
12. Equal Sharing

Measurement

1. Compare & order lengths
 2. Compare & order mass
 3. Compare & order capacity
 4. Developing ideas about time
- Teacher notes books 1 - 4

Supporting Book 1b

13. Adding & taking away
14. Patterns & relationships
15. Finding the difference
16. Making 10
17. Sequencing to 100
18. Equal grouping
19. Working with doubles
20. Fractions of shapes
21. Equal sharing
22. Fractions of numbers
23. Using 10 as a counting set
24. The importance of a group of 10
25. Addition & Subtraction to 20

Supporting Book 2a

1. +/- facts to 10, doubles
2. Numbers to 100
3. Money
4. Multiply by 2, odd/even
5. Multiply by 10 & 5
6. PV, Basic facts & rounding
7. Multi digit addition using BF
8. Multi digit subtraction using BF
9. Using 10 & decades
10. Number facts to 20
11. All about halves & quarters
12. Double digit + single digit
13. Double digit - single digit

All workbook answers

Supporting Book 2b

14. Double digit addition
15. Double digit subtraction
16. Numbers to 999
17. Working with money
18. 3 and 9 times tables
19. Doubling x 2, x4, x8
20. Equal sharing & equal grouping
21. Rounding & estimating
22. Adding 3 digit numbers
23. Subtracting 3 digit numbers
24. Understanding fractions
25. Understanding division, factors & multiples
26. The four operations

All workbook answers

Supporting Book 3a

1. Multiply by 6,7,8
2. Addition & subtraction
3. Larger numbers
4. Multiply & divide
5. Fractions
6. Decimals - tenths
7. Finding & following rules
8. The four operations

All workbook answers

Supporting Book 3b

9. Practicing multiplication
10. Whole number place value
11. Addition & subtraction
12. Extending multiplication
13. Extending division
14. Fractions
15. Decimal fractions
16. Beginning algebra

All workbook answers

Supporting Book 4a

1. Addition & subtraction
2. Multiplication & division
3. Fractions, decimals & percentages
4. Decimal addition & subtraction
5. Base 10 number system
6. Equations & expressions

All workbook answers

Supporting Book 4b

7. Multiples & factors
8. Fractions, decimals & percentages
9. Decimal operations
10. Proportions & ratios
11. Solving linear equations

All workbook answers

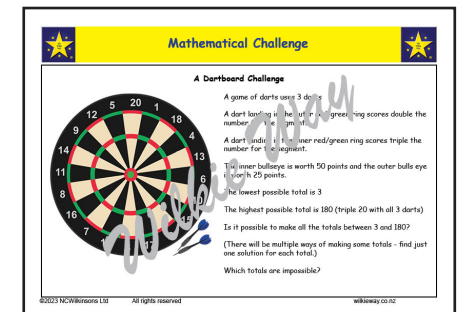
Student Resources Problem Based:

Concept word problems - organised by level 1, level 1-2, level 2, level 2-3, level 3, level 3-4, level 4 In each of these folders are the teacher notes and answers. These same problems can also be found under the topic based heading along with further resources on the topic.

Graduated problems on a theme - each theme has a set of 4 problems, each problem around the content of level 1, level 2, level 3 and level 4 offering low entry, high ceiling for whole class problem solving using mathematics from across the strands. They can lead to teaching moments, teaching to current need and exploring areas of mathematics with no boundaries.
Notes and answers for each set of problems.

Themes: Airport, Autumn, Beach, Bike, Book, Christmas, Cold, Cooking, Covid 19, Dragon, Drinking straws, Easter, Equal, Fireworks, Garden, Halloween, Holiday, Homonyms & Homophones, House, Humpty Dumpty, Jug, Paper, Party, Pie, Place value, Play, Puddle, Pumpkin, Shopping, Space, Spring, Time, Tree, Umbrella, Underwater, Vegetable

Challenges - ideal for exploring patterns and relationships in mathematics (year 3 upwards) - 11 different challenges



Rich Learning Tasks

Level 1

Buying stickers
Dragon caves
Fruit bowl
Sally's money box
Sharing muffins
Space problem
The teddy bears picnic

Level 2

Chocolate Eggs
Investigating 2 digit numbers
Investigating 4 digit numbers
Legs in the field
Making numbers
Money box
Ratu's 8 coins
Spending \$100
The 100th birthday party
Weighing lollies
Wizard spells
Word values

Level 3

Alphabet problem
Chicken run
Class trip
Daffodil bulbs
Deliveries
Going to Camp
Growing flowers
Hot chocolate
Making more spells
Measles
The answer is...
Wendy worm

Level 4

Coloured ribbons
Cycling time
Floorboards
Marbles
Me Myself I
Mr Singhs Beach Shop
Mums Lollies
Square puzzle

Maths From Stories

Flat Stanley Tiger Tea

Teacher guide - Using maths trails

Special Occasions

Resources for special occasions - Christmas, Easter, Halloween

Student Resources Topic Based

Addition & Subtraction - organised by levels 1 - 4 include concept word problems, games, and other activities relevant to the level and topic
 Additive Thinking Signpost 5 - word problems , answers and teacher guide
 Additive thinking Signpost 6 - word problems, answers and teacher guide

Multiplication & Division organised by levels 1 - 4 includes concept word problems and games



A Multiplicative Learning Task

Going to Camp

Name: _____

Class _____



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Understanding Fractions
Designed by Charlotte Wilkinson

One half $\frac{1}{2}$
 $\frac{1}{2}$ is coloured

Two halves $\frac{2}{2}$
 $\frac{2}{2}$ are coloured

$\frac{1}{3}$ is coloured

$\frac{2}{3}$ are coloured

$\frac{3}{3}$ are coloured

$\frac{4}{4}$ are coloured

$\frac{1}{4}$ of 8 is 2

$\frac{1}{2}$ of 8 is 4

$\frac{1}{3}$ of 6 is 2

$\frac{1}{2}$ of 6 is 3

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Fractions, Decimals & Percentages

organised by levels 1 - 2, 2 - 3 and 3 - 4 includes concept word problems
 Fraction cards: unit and non unit fractions ideal for sequencing and ordering on a number line
 Fraction posters for printing in A3 showing fraction of regions, number and position on a number line; half, quarter, third, fifth and tenth

Place Value Teacher guide place value progression - resources organised by progression

Additive Thinking Signposts 2 - 3

Teen games
 Teens numbers - English & Te reo Maori
 Teen/Ty bingo
 Teen/Ty workbook
 Understanding counting words & symbols
 Place value trains
 Twenties frames

Additive Thinking Signpost 4 Multiplicative Thinking Signpost 3

Place Value lessons (10 lessons)
 Hundred square puzzles
 Concept word problems
 Family of facts x10
 Making 2 digit numbers
 Place value trains

Additive Thinking Signpost 5 Multiplicative Thinking Signpost 4

Concept word problems
 Nested place value problems
 Mystery numbers

Additive Thinking Signpost 6 Multiplicative Thinking Signpost 5

Concept word problems

Additive Thinking Signpost 7 Multiplicative Thinking Signpost 6

Concept word problems

Additive Thinking Signpost 7/8 Multiplicative Thinking Signpost 7/8

Concept word problems

Place Value equipment resources - digit cards. PV houses, money notes, bead frame cards, decimats, hundred squares

Algebra - organised by level 1-2, level 2 - 3, level 3 - 4 Concept word problems, equality pairs, and challenges, function machines

Financial Literacy Understanding NZ currency, games, Level 1 - 2 Activity cards, Level 1 - 2 worksheets
 Money workbooks 1 - 3 (Additive thinking 5, Multiplicative thinking 3 - 4) including Teacher guide & answers
 Money workbooks 4 - 6 (additive thinking 6 - 7 Multiplicative thinking 5 - 6) including Teacher guide & answers
 Money - addition, subtraction, multiplication, division (as in Learning Support section)



Money Workbook 1

Name _____
 Class _____

- Learning opportunity for:**
- Reading mathematical word problems
 - Solve multi choice type problem
 - Additive Thinking
 - Spending money
 - Receiving Money
 - Sharing Money



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New Zealand Money Notes

Look carefully at both sides of the \$5 note.
 Who is the person on a \$5 note?
 What is in the bird on the other side?
 Find out something about the person on the \$5 note.
 Find out something about the bird on the \$5 note.

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New Zealand Coins

You will need one of each of the coins.
 Look carefully at both sides of each coin.
 Whose head is on each coin?
 What are the pictures on the other side of each coin?
 Can you find any different pictures for any of the coins?
 Make some coin rubbings.
 Create a pattern with your coin rubbings.

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**The Wilkie Way
 Measurement Workbook 1**



Name _____
 Class _____

Compare and order lengths



Supports
 Maths Aotearoa
 Book 1a
 Attributes of Measure
 Compare Measures
 Activity Cards
 Unit 3 Cards 4, 5, 9 - 11, 14, 15

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**The Wilkie Way
 Measurement**

Teacher Notes

- Workbook 1: Compare & order lengths
- Workbook 2: Compare and order mass
- Workbook 3: Compare and order capacity
- Workbook 4: Developing ideas of time



Foundational Activities
 for beginning concepts of
 measurement

Further activities to
 support
 Maths Aotearoa
 Book 1a

(Includes student record sheet)

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Measurement: Measurement workbooks (level 1) - *further resources under development*

Geometry - Video lessons

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

- signpost 1 (level 1) : Ordering
- signpost 2 (level 1 - 2): Left & Right Turns
- signpost 3 (level 2): Using Grid References & Grid References and Compass Points
- signpost 4 (level 3): Lines, Angles & Triangles Drawing Plane Shapes
- signpost 5 (level 4): Bearings