



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

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## Numeracy Games

Learning about Numbers    Te Reo Maori Versions  
to 10  
Addition & Subtraction to 10    Addition & Subtraction to 20  
Counting in 2s, 5s & 10s    Multiplication & Division

## 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)

## 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.

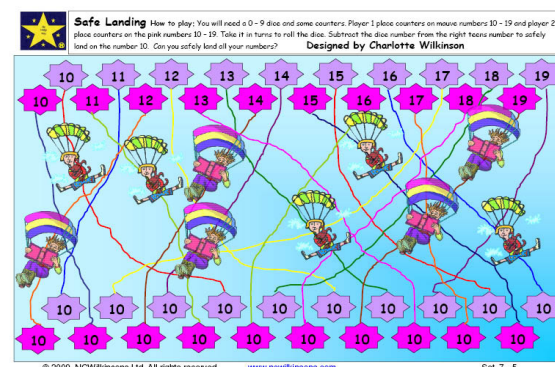
Agility course one - practice for 2s, 5s and 10s

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

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

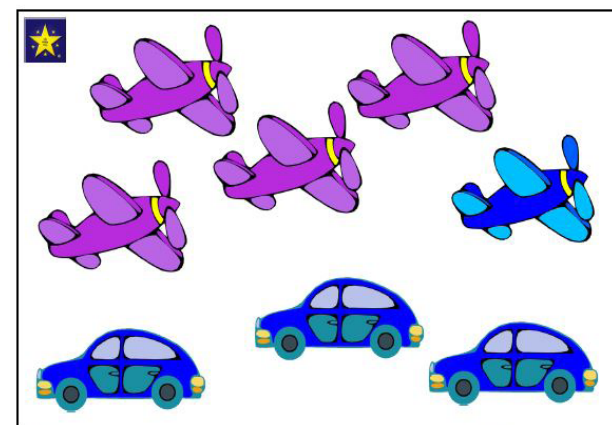
Baseboards for learning to write numerals 0 - 9

### 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, 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

**Challenges** - ideal for exploring patterns and relationships in mathematics (year 3 upwards)

## Rich Learning Tasks

<b>Level 1</b> Buying stickers Dragon caves Fruit bowl Sally's money box Sharing muffins Space problem The teddy bears picnic	<b>Level 2</b> 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	<b>Level 3</b> 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	<b>Level 4</b> Coloured ribbons Cycling time Floorboards Marbles Me Myself I Mr Singhs Beach Shop Mums Lollies Square puzzle
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## 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

**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

<b>Additive Thinking Signposts 2 - 3</b> Teen games Teens numbers - English & Te reo Maori Teen/Ty bingo Teen/Ty workbook Understanding counting words & symbols Place value trains Twenties frames	<b>Additive Thinking Signpost 4</b> <b>Multiplicative Thinking Signpost 3</b> Place Value lessons (10 lessons) Hundred square puzzles Concept word problems Family of facts x10 Making 2 digit numbers Place value trains	<b>Additive Thinking Signpost 5</b> <b>Multiplicative Thinking Signpost 4</b> Concept word problems Nested place value problems Mystery numbers	<b>Additive Thinking Signpost 7</b> <b>Multiplicative Thinking Signpost 6</b> Concept word problems
		<b>Additive Thinking Signpost 6</b> <b>Multiplicative Thinking Signpost 5</b> Concept word problems	<b>Additive Thinking Signpost 7/8</b> <b>Multiplicative Thinking Signpost 7/8</b> 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)

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

**Geometry** - Video lessons    Geometric thinking signpost 1, signpost 2, signpost 3, signpost 4, signpost 5