

Online Numicon 1 Sample



Teaching progressions for the year



Securing Foundations 5 Describing relationships, more adding and patterns in movement NPC Milestone Securing Foundations 6 Naming number rods, investigating teen numbers and finding totals Securing Foundations 7 More about teen numbers, number patterns, adding Securing Foundations 8 Beginning subtracting, sorting, more number patterns Securing Foundations 9 Sorting, more practical subtracting NPC Milestone Securing Foundations 10 Comparing lengths and weights, more subtracting Securing Foundations 11 Counting and adding Securing Foundations 12 Similar attributes, numbers to 20 and the '+' symbol NPC Milestone Pattern and Algebra 1 Preparing for equivalence and using the '=' symbol Calculating 1 Numbers and the Number System 2 Adding and subtracting 1 and 2 Geometry 1 Recognizing and imagining common 2D shapes Measurement 1 Comparing, ordering and measuring lengths The money will be updated to \$ and c in the NZ Version for 2025	Strand and Activity Group Number		Activity Group Tit	le				
Securing Foundations 3 Building Numicon Shape patterns, more repeating patterns and number line Securing Foundations 4 Comparing and ordering, more patterns, beginning calculating NPC Milestone Securing Foundations 5 Describing relationships, more adding and patterns in movement NPC Milestone Securing Foundations 7 More about teen numbers, number patterns, adding Securing Foundations 8 Beginning subtracting, sorting, more number patterns Securing Foundations 9 Sorting, more practical subtracting NPC Milestone Securing Foundations 10 Comparing lengths and weights, more subtracting Securing Foundations 11 Securing Foundations 12 Similar attributes, numbers to 20 and the '+' symbol NPC Milestone Pattern and Algebra 1 Preparing for equivalence and using the '=' symbol NPC Milestone Pattern and Algebra 1 Introducing the subtracting symbol Ordering numbers to 20 Adding and subtracting 1 and 2 Geometry 1 Recognizing and imagining common 2D shapes Measurement 1 Comparing, ordering and measuring lengths The money will be updated to \$ and c in the NZ Version for 2025	Securing Foundations	1	Learning about Numicon Shapes, number rods, pattern and counting					
Securing Foundations 5 Describing relationships, more adding and patterns in movement NPC Milestone Securing Foundations 6 Naming number rods, investigating teen numbers and finding totals Securing Foundations 7 More about teen numbers, number patterns, adding Securing Foundations 8 Beginning subtracting, sorting, more number patterns Securing Foundations 9 Sorting, more practical subtracting NPC Milestone Securing Foundations 10 Comparing lengths and weights, more subtracting Securing Foundations 11 Counting and adding Securing Foundations 12 Similar attributes, numbers to 20 and the '+' symbol NPC Milestone Pattern and Algebra 1 Preparing for equivalence and using the '=' symbol Calculating 1 Introducing the subtracting symbol Numbers and the Number System 2 Adding and subtracting 1 and 2 Geometry 1 Recognizing and imagining common 2D shapes Measurement 1 Comparing, ordering and measuring lengths The money will be updated to \$ and c in the NZ Version for 2025	Securing Foundations	2	Naming Numicon Shapes, building patterns and counting objects					
Securing Foundations 5 Describing relationships, more adding and patterns in movement NPC Milestone Securing Foundations 6 Naming number rods, investigating teen numbers and finding totals Securing Foundations 7 More about teen numbers, number patterns, adding Securing Foundations 8 Beginning subtracting, sorting, more number patterns Securing Foundations 9 Sorting, more practical subtracting NPC Milestone Securing Foundations 10 Comparing lengths and weights, more subtracting Securing Foundations 11 Counting and adding Securing Foundations 12 Similar attributes, numbers to 20 and the '+' symbol NPC Milestone Pattern and Algebra 1 Preparing for equivalence and using the '=' symbol Calculating 1 Introducing the subtracting symbol Numbers and the Number System 1 Ordering numbers to 20 Calculating 2 Adding and subtracting 1 and 2 Geometry 1 Recognizing and imagining common 2D shapes Measurement 1 Comparing, ordering and measuring lengths Measurement 2 Introducing the 1p, 2p The money will be updated to \$ and c in the NZ Version for 2025	Securing Foundations	3	Building Numicon Shape patterns, more repeating patterns and number lines					
Securing Foundations 6 Naming number rods, investigating teen numbers and finding totals Securing Foundations 7 More about teen numbers, number patterns, adding Securing Foundations 8 Beginning subtracting, sorting, more number patterns Securing Foundations 9 Sorting, more practical subtracting NPC Milestone Securing Foundations 10 Comparing lengths and weights, more subtracting Securing Foundations 11 Counting and adding Securing Foundations 12 Similar attributes, numbers to 20 and the '+' symbol NPC Milestone Pattern and Algebra 1 Preparing for equivalence and using the '=' symbol Calculating 1 Introducing the subtracting symbol Numbers and the Number System 1 Ordering numbers to 20 Calculating 2 Adding and subtracting 1 and 2 Geometry 1 Recognizing and imagining common 2D shapes Measurement 1 Comparing, ordering and measuring lengths Measurement 2 Introducing the 1p, 2p The money will be updated to \$ and c in the NZ Version for 2025	Securing Foundations	4	Comparing and ordering, more patterns, beginning calculating					
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Pattern and Algebra 1 Preparing for equivalence and using the '=' symbol Calculating 1 Introducing the subtracting symbol Numbers and the Number System 1 Ordering numbers to 20 Calculating 2 Adding and subtracting 1 and 2 Geometry 1 Recognizing and imagining common 2D shapes Measurement 1 Comparing, ordering and measuring lengths Measurement 2 Introducing the 1p, 2p The money will be updated to \$ and c in the NZ Version for 2025	Securing Foundations	11	Counting and adding					
Pattern and Algebra 1 Preparing for equivalence and using the '=' symbol Calculating 1 Introducing the subtracting symbol Numbers and the Number System 1 Ordering numbers to 20 Calculating 2 Adding and subtracting 1 and 2 Geometry 1 Recognizing and imagining common 2D shapes Measurement 1 Comparing, ordering and measuring lengths Measurement 2 Introducing the 1p, 2p The money will be updated to \$ and c in the NZ Version for 2025	Securing Foundations	12	Similar attributes, numbers to 20 and the '+' symbol					
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Measurement 2 Introducing the 1p, 2p Calculating 3 Money The money will be updated to \$ and c in the NZ Version for 2025	Geometry	1	Recognizing and imagining common 2D shapes					
Calculating 3 Money The money will be updated to \$ and c in the NZ Version for 2025	Measurement	1	Comparing, ordering and measuring lengths					
Calculating 3 Money NZ Version for 2025	Measurement	2	Introducing the 1p, 2	The money will be updated to \$ and c in the				
	Calculating	3	Money	·				
NPC Milestone				NPC Milestone 4				



Strand and Activity Group Number		Activity Group Title	
Numbers and the Number System	2	Finding how many by grouping	
Measurement	3	Units of time	
		GMS Milestone	: 1
Geometry	2	Making pictures, shapes and patterns	
Calculating	4	Exploring adding and subtracting facts to 10	
Measurement	4	Comparing, ordering and measuring heaviness	
Calculating	5	Halves and quarters of wholes	
		NPC Milestone	: 5
Measurement	5	Comparing, ordering and measuring capacity	
and gebra	2	Reasoning with Numicon Shapes and number ideas	
SAMPLE bra	3	Odd and even	
Calculum	6	Understanding subtracting as 'difference' and as 'how many more?'	
Geometry	3	Recognizing and imagining common 3D shapes	
		GMS Milestone	2
Numbers and the Number System	3	Exploring number lines and counting in steps	
Calculating	7	Developing recall of adding and subtracting facts within 10	
		NPC Milestone	: 6
Numbers and the Number System	4	Structure of 2-digit numbers and more ordering	
Pattern and Algebra	4	Logic	
		NPC Milestone	7
Geometry	4	Comparing and naming common solid 3D shapes	
Calculating	8	Adding more than two numbers	
Calculating	9	Partitioning into tens and ones	
Measurement	6	Telling the time	
Pattern and Algebra	5	Finding possibilities	
		NPC Milestone	8
Geometry	5	Position, direction and movement	
		GMS Milestone	3

Calculating 6: Understanding subtracting as 'difference' and as 'how many more?'

Key mathematical ideas Adding, Subtracting, Zero, Inverse, Mathematical thinking and reasoning

Educational context

This activity group builds on previous work with subtracting as 'difference'. It begins with comparing heights and quantities and relating these to number ideas, continuing the use of the < and '>' symbols.

Children then find the difference in a data handling situation, enabling further questioning and conversation about differences. This leads to discussion about how we might write 'the difference between'. While children are introduced to the subtracting symbol as a way of writing a 'difference' subtracting sentence, they are not expected to use it independently.

This group of activities also uses the 'inverse of addition' structure for subtracting, in which children have to find 'how many more?' are needed to reach a given number. The idea of 'how many more?' can often be confusing for children: 'more' has previously always meant an increase when adding, but it is now being linked to subtracting. Accordingly, the activities provide plenty of practice in using this structure, including in the everyday situation of comparing money values and giving

Alongside subtracting, the activity group also presents an opportunity for children to think about capacity – a concept it is important that they experience and explore. This is provided in the form of an investigation, in Activity 2, about the conservation of amount in different - shaped containers.

Learning opportunities

- To learn how to find differences between small numbers without counting.
- To understand 'how many more?' as a way to find an answer to a subtracting problem.
 - To solve difference problems in a data handling situation.

Terms for children to use

greater than, less than, subtract, difference, the difference between, how many more?, how much more?, equals, pattern, similar, different, subtracting symbol

Assessment opportunities

of Look and listen for children who:

- Use the terms for children to use effectively in discussion.
- Are able to use the '<' and '>' symbols effectively when comparing number ideas.
- Are able to find differences between small numbers without counting.
- Make connections and solve difference problems in a data handling situation.
- Begin to use the inverse relationship between adding and subtracting.
- Are beginning to understand 'how many more?' as a way of finding an answer to a subtracting problem.

Learning Opportunities are linked with the Assessment opportunities, detailing the range of Focus Activities for this week

NPC Milestone 6

numicon

- Begin to understand 'how many more?' as a way of finding an answer to a subtracting problem (NPC 1:6e)
 Solve 'difference' problems in a data handling situation
- •

Explorer Progress Book 1c, pp. 6-7

After completing work on this activity group, give small focus groups of children their Explorer Progress Books and ask them to work through the challenges on the pages. As children complete the pages, assess what progress they are making with the central ideas from the activity group. Refer to the assessment opportunities for assistance.

Explore More Copymaster 27: Busy Bees

After completing work on Activity 6, give children Explore More Copymaster 27: Busy Bees to take home.

Focus activities

- 1. Measuring and comparing heights
- 2. Comparing quantities of dry sand or liquid
 - 3. Finding the difference in data handling
- ringing the difference between ... and ... is ...' using word
- 5. How much older?
- 6. 'How many more?' with Numicon Shapes
 - 7. 'How many more?' with number rods
 - 8. How much more money?
- 9. Beginning to relate 'how much more?' to giving change

Assessment is supported by Explorer Progress activities at the end of the week or later. These are recorded along with the Milestones to provide a record of learning that is stored in the assessment Tracker

Key Mathematical Ideas provide a summary of the important concepts covered this week



• To learn how to find differences between

• To understand 'how many more?' as a way

• To solve difference problems in a data

to find an answer to a subtracting problem.

small numbers without counting.

Links

Learning opportunities:

handling situation.



numicon 🔀 Terms for children to use:

greater than, less than, subtract, difference, the difference between, how many more?, how much more?, equals, pattern, similar, different,

Have ready:

subtracting symbol

- Two toy figures of differing heights
- Number rods
- Words and Symbols for Calculating (cut from photocopy master 42a)

Quit activity 🔀

Intro

I: Measuring and comparing heights

Quit activity 🔀

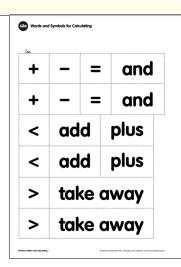
Full activity group overview Starter image

Whole-class practice

Photocopy masters Implementation guide **IWB Software**

MyMaths

Explorer Progress Book Ic, pp. 6-7 Explore More Copymaster 27: Busy Bees Numicon I Milestone Assessment cards (NPC I:6e and NPC I:6f) Numicon I Milestone Tracking chart





Implementation Guide

Arithmetic operations, or the four rules: adding and subtracting

In Number, Pattern and Calculating 1, we are concerned principally with introducing two arithmetic operations: adding and subtracting.

In relation to adding and subtracting, children learn: structures (the forms in which adding and subtracting occur); methods (how to do the calculations) and properties (characteristics and relationships to each other).

Structures for adding and subtracting

There are usually thought to be two adding structures: aggregation and augmentation.

Aggregation is putting together. Two or more amounts or numbers are put together to make a total or sum, e.g. 'Jonny picked two apples from a tree. Tim picked three apples. How many apples did they have in total?

Augmentation is about increasing. Typically, when one amount is increased or made bigger, e.g. 'Last year Rajesh was 103 cm tall. He has grown 3 cm. How tall is he now?

With subtracting, there are usually thought to be four structures: take away, decrease, comparison and inverse of adding. Already, you can see one big reason children find subtracting more difficult: it is much more complicated than addition.

Take away refers to those situations where something is lost, or one thing is taken away from another, e.g. 'Gemma has six sweets. She eats three. How many does she have now?'

Decrease is about reduction, e.g. 'A watering can holds 5 litres of water. Pieter pours out 2 litres. How much is left in the can?

Comparison is where two amounts are being compared and we want to find the difference, e.g. 'Samir has 10 p and Nihal has 12 p. What's the difference between the amount of money Samir and Nihal have?'

The inverse of adding structure is about wanting to know how much more of something we want or



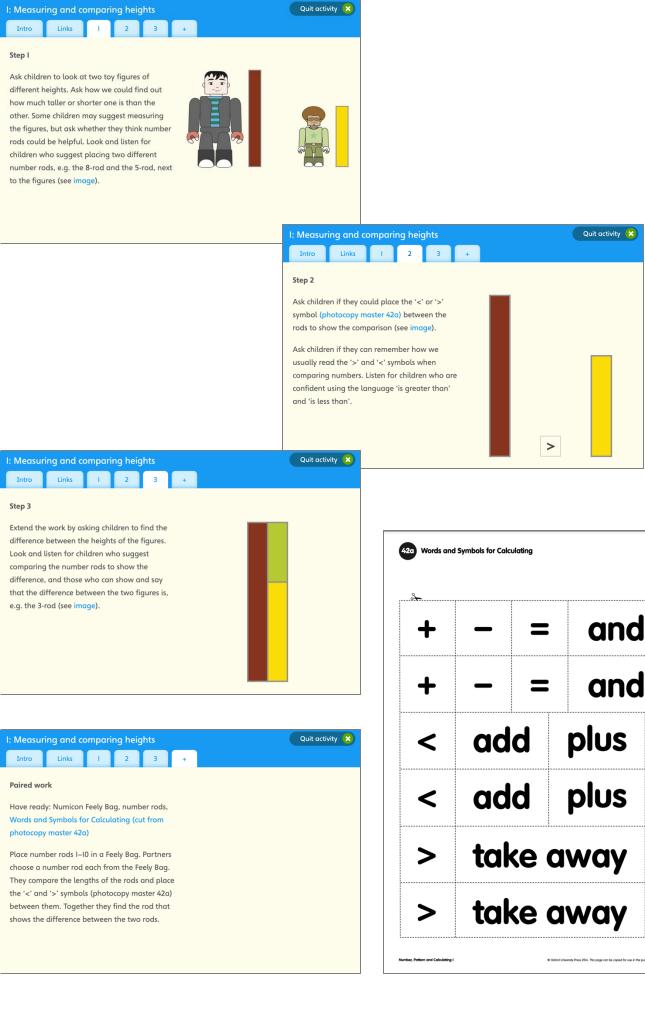


Practice and discussion: Whole-class

- Discuss with children how and when the mathematics they have been learning could help them in solving problems
- Tell children adding or subtracting stories and ask them to make the action for the operation they would use to solve the problems
- · Play a game with children. They will need a set of Numicon Shapes each, or per pair. Say, 'I have two Shapes in the Feely Bag and their difference is 1. One of them is a 7-shape. What could the other Shape be?' Children are allowed to ask indirect questions to help them identify the Shape. Listen for children who understand that there is more than one possible answer, and for those who ask appropriate indirect questions, e.g. 'Is it larger than the 7shape?' Repeat for larger differences.
- Write a subtracting sentence on the board. Ask children to read it, find the Numicon Shapes or number rods to answer it and complete the sentence

Focus activities

- 1. Measuring and comparing heights
- 2. Comparing quantities of dry sand or liquid
- 3. Finding the difference in data handling
- 4. Writing 'the difference between ... and ... is ...' using word
- 5. How much older?
- 6. 'How many more?' with Numicon Shapes
- 7. 'How many more?' with number rods
- 8. How much more money?
- 9. Beginning to relate 'how much more?' to giving change





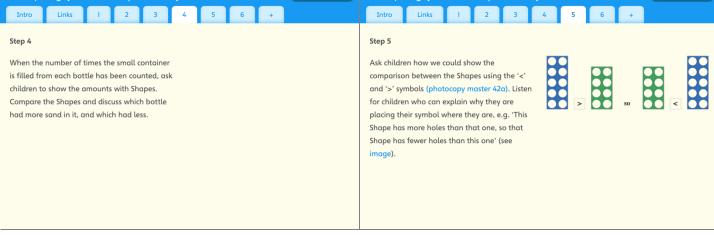
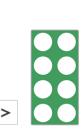


Image link to show on screen or print for discussion













T 1 ... 1 ... 6 . 1 ...

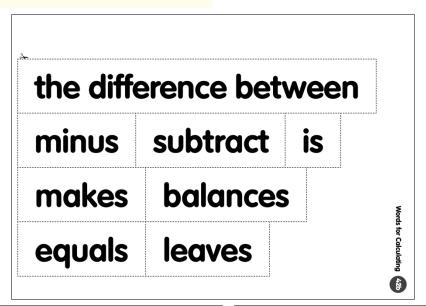
- To learn how to find differences between small numbers without counting.
- To understand 'how many more?' as a way to find an answer to a subtracting problem.
- To solve difference problems in a data handling situation.

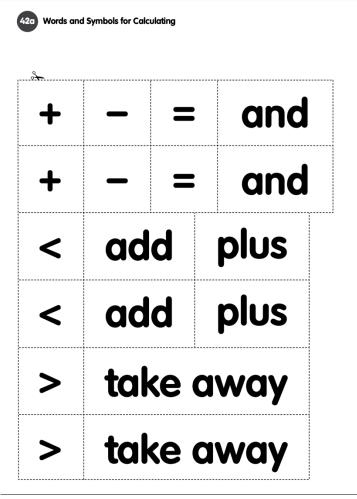
greater than, less than, subtract, difference, the difference between, how many more?, how much more?, equals, pattern, similar, different, subtracting symbol

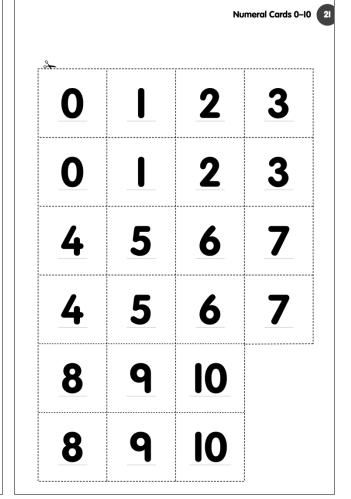
Have ready:

- Numicon Shapes and Feely Bag
- Number rods
- Words and Symbols for Calculating (cut from photocopy masters 42a and 42b)
- Numeral Cards I–I0 (cut from photocopy master 2I)

the difference between 9 and 6 is 3										
or										
the difference between	6	and	9	is	3					







8 Numicon – Number, Pattern and Calculating 1

Calculating 6, Understanding subtracting as 'difference' and as 'how many more?'

Busy Bees

How this will help your child

- This activity will help your child to subtract by comparing two numbers to find the difference in their values.
- It will also encourage them to compare two numbers and find how many more are needed to reach the larger one.

Words and phrases to use

subtract, difference, the difference between, 'how many more to reach...?', equals

You will need

- Card Numicon Shapes 1–10
- A hat (or something to 'hide' the Shapes in)
- Scissors

During the activity, look at what your child can do

- See the difference in value when comparing two Numicon Shapes and know that finding the difference is subtracting.
- Compare two Numicon Shapes and see how many more are needed to reach a given number.

What to do

- Place your child's card Numicon Shapes 1–10 in a hat.
- Cut out the two bee counters from the Busy Bees sheet and place them on the starting square of the game sheet.
- Explain to your child that the bees are flying around the garden collecting nector from the flowers. Finding the differences between two Numicon Shapes will show where the bees should land next.
- The first player takes two Shapes and finds the difference between them.
- They then move their bee counter to the next space showing that difference.
- Put the Shapes back in the hat.
- · The second player then has a turn.
- Carry on taking turns until one of the bees reaches the hive.

Next steps...

- Choose two everyday objects and compare their size.
- Take turns with your child to set out some objects, e.g. buttons or small toys, into a Numicon Shape pattern. Point to a pattern, e.g. 6, and challenge them to work out how many more objects they need to reach a higher number, e.g. to make a 6-pattern into a 9-pattern. Have extra objects ready for your child to set out and check their answer.

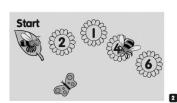
Explore More

- for class and home

Activities for class and home offer further opportunities for children to explore maths in an engaging way.

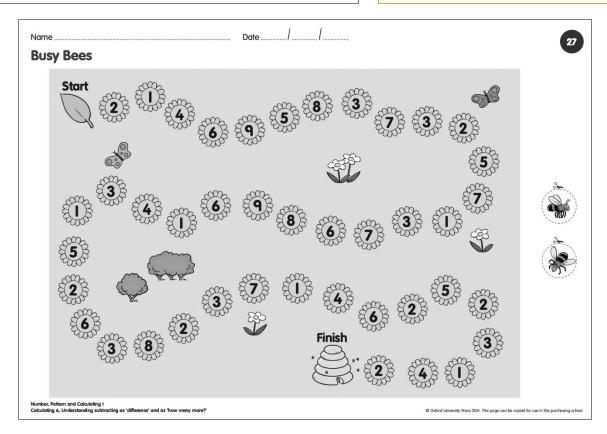
A clear guide and suggestions on how to extend the activity





Oxford University Press 2014. This page can be copied for use in the purchasing school

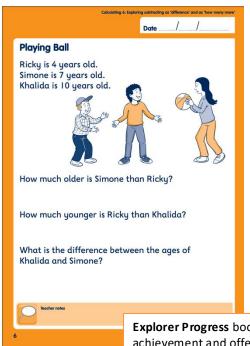
Practical real-life contexts help children think about how maths can be used and applied



Milestone ASSESSMENT CARDS

Explorer Progress

weekly assessment tool

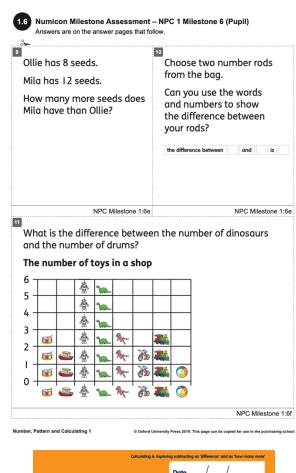


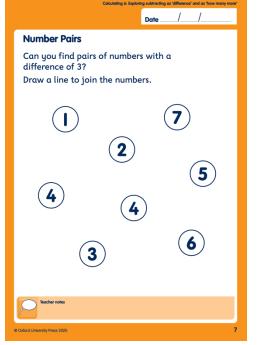
Explorer Progress books provide a record of achievement and offer an individual chance to see children's thinking, monitor their progress and assess their understanding

Open activities give you the opportunity to see how well children can use and apply the maths learning in new contexts.

Assessment Tracker

- weekly assessment tool





Milestone	Code	NPC / GMS ▽		nicon and 🔻	AG	NC strand	John Smith	
Number, Pattern & Calculating 1 Milestone 6							Started	Not started
By this point, children should be able to:							3 out of 6	0 out of 6
Use the terms odd and even when referring to numbers and totals; name odd and even numbers (to 10)	NPC 1:6a	NPC	P8	kΑ	P&A3	Addition & subtraction		
Count in 2s, 5s and 10s supported by structured apparatus	NPC 1:6b	NPC	N	NS	NNS3	Number & place value		
• Instantly recognize Numicon Shape patterns and number rods as representations of numbers	NPC 1:6c	NPC		GREEN – Achieved				
Fluently recall adding and subtracting facts of numbers to 10 and use these when calculating and solving real problems	NPC 1:6d	NPC		ORANGE – on the way RED – to target				
Begin to understand 'how many more?' as a way of finding an answer to a subtracting problem	NPC 1:6e	NPC		WHITE – not started			▼	
Solve 'difference' problems in a data handling situation	NPC 1:6f	NPC	(С	C6	Addition & subtraction		



Your next steps...

Find out how Numicon can make a difference in your school and discover Numicon's potential, arrange an appointment, or Professional Development with us:

Web: www.numicon.co.nz and www.edushop.nz

Email: info@numicon.co.nz

Phone: 0800 678 581

