



# 2012

## Numicon resource guide

### *New for 2012!*

- Bespoke Professional Development
- New getting started pack
- New resources for ages 7+
- Free online resources and games

# Welcome to the 2012 Numicon resource guide

## Why use the Numicon approach?

1. The Numicon approach builds confidence and enjoyment in maths for teachers and learners.
2. Our proven pedagogy gets results – raising achievement across all ability levels.
3. Using structured apparatus you can really 'see' what a child is thinking and assess their understanding.
4. Numicon Professional Development is NCETM and TDA accredited and delivered by consultants that are passionate about maths.
5. The Numicon approach offers a range of online support to really transform your maths teaching!



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Information on inspiring training delivered by accredited maths professionals and our intervention programme.

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All the accessories that make Numicon maths lessons possible!

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# NEW! Numicon Kit 3

## Problem-solving maths for ages 7+

Tackling number, algebra and calculating at National Curriculum level 3, Numicon Kit 3 takes a fresh approach to problem-solving, with all activities starting from a real life or mathematical context.



“The problem-solving activities in Kit 3 have led to lessons where the children have been reluctant to finish because they’re enjoying the challenge so much!



Ashley Seymour-Williams  
Deputy Headteacher

The Kit 3 comprehensive teacher support includes two manuals: the Teaching Guide and the Activity Handbook.

The Numicon Kit 3 Teaching Guide also includes Planning and Resources Software with a host of features, including editable planning sheets, photocopy masters, videos and resources for classroom displays.



Numicon Kit 3 - Activity Group 3 - Calculating 1 - Adding and subtracting facts of all numbers to 10

Key mathematical ideas: Adding, subtracting, Pattern, Mathematical Working

Calculating

### Adding and subtracting facts of all numbers to 10

1

**Educational context**

This activity group revisits adding and subtracting facts of numbers to 10, going on to explore efficient ways of finding facts of numbers without counting or juggling by grouping tenons (shades) into tens. (Refer to the Activities 1, 2 and 3 for children who already have fluent recall of adding and subtracting facts to 10 by asking them to explore how many combinations can be found for any number within their working range. The challenge in all the activities can be increased by substituting number mats for Numicon Shapes.)

Emphasising and maintaining fluency with these facts is worth an explicit 'test' for children's learning that we strongly advise the previous activities should be revisited frequently until children have fluent recall.

**Learning opportunities**

- To develop fluency with different combinations of numbers to make given totals.
- To demonstrate to both for patterns and that it is useful to spot them when working systematically.
- To know when to use the inverse relationship between adding and subtracting to solve problems.
- To become fluent with adding and subtracting facts of numbers to 10 and to recognise that these can be useful in many different situations.
- To experience situations when it is useful to use adding and subtracting facts of numbers to 10.
- To know that a lot of numbers can be totalled in one row.

**Words and terms for use in conversation**

tenons, add, plus, total, combine, subtract, take away, minus, difference, equal, single digit facts, pattern, similar, different, continuous, abstract, regular, systematic, grid, row.

**Assessment opportunities**

look and test for:

- Children who use the above words and terms effectively in discussion.
- Children who are engaged and motivated in exploring the activity.
- Children who recognise when it is important to be well organised and to work systematically, i.e. those who show adding facts in order with structure apparatus.

- Children who declare when to use the inverse relationship between adding and subtracting.
- Children who have fluent recall of adding and subtracting facts to 10 and who know when to use these to help when solving and adding long digit numbers.
- Children who can partition a fact by Numicon (they are grouped into tens and an amount smaller than 10).
- Children who know when a general statement can be made because they have noticed something always happening, in this case the bigger the number the greater the number of possible combinations.
- Children who are able to make a reasonable estimate of the total of a set of total numbers.
- Children who know that a set of numbers can be totalled in any order i.e. adding this is commutative property.

Each Kit 3 activity group highlights the educational context, mathematical language for use in conversation, learning and assessment opportunities.

**Top tip!**

Go to [www.numicon.com](http://www.numicon.com) to download your free activity group from Kit 3.

# A proven approach

## It all started with one question... 'Why?'

'In the mid 1990s Dr Tony Wing and I voiced the question many other teachers were asking – why do so many children find maths hard when they succeed in other subjects?

We looked at how we were teaching and realised that we had been underestimating the difficulties children have understanding abstract ideas without pictures to help them. So we set up a school-based Teacher Development Agency (TDA) research project, to see what impact structured images (Numicon Shapes and Cuisenaire rods) would have.

We found that **children made remarkable progress and teachers' subject knowledge and maths pedagogy improved** as they adopted the approach.'

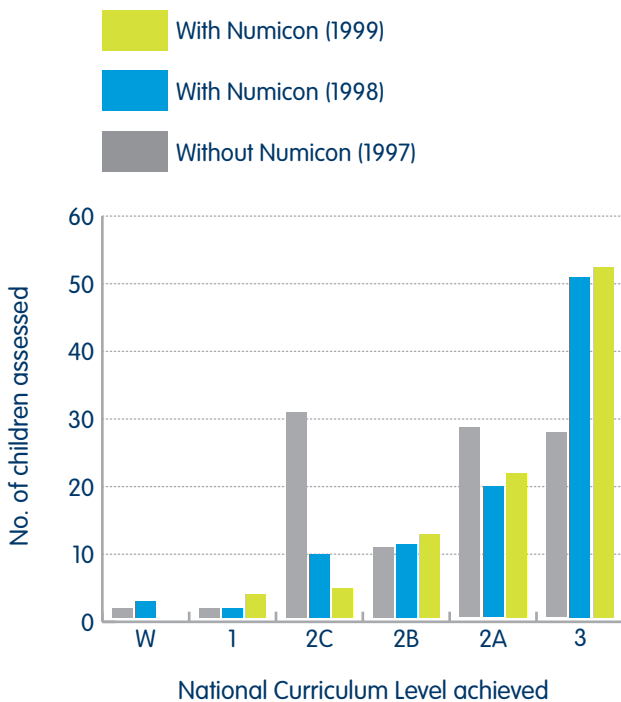


**Romey Tacon**

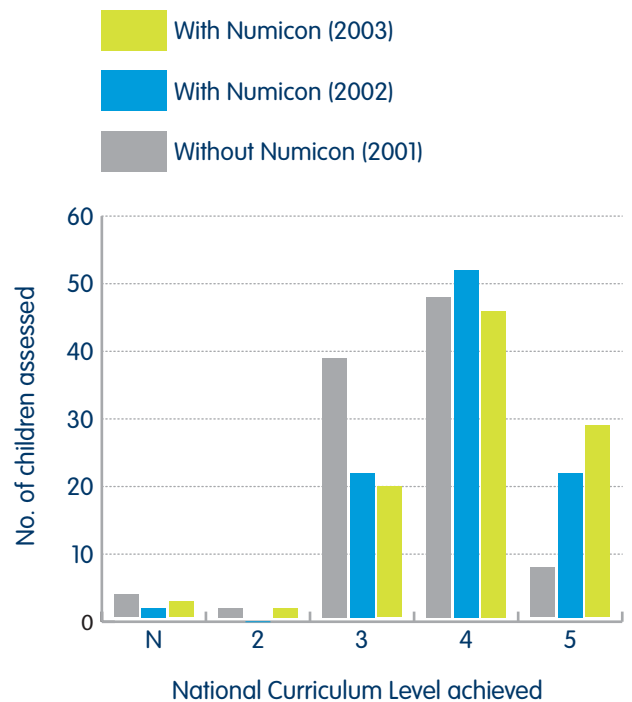
Former headteacher, a consultant and co-author of the Numicon approach

## The Numicon approach raises achievement in mathematics and sustains it over time...

**Peacehaven Infant School Mathematics KS1 SATs results**



**Hodder Junior School Mathematics KS2 SATs results**



**47% increase** in students achieving **Level 3 at KS1** having followed the Numicon approach

**155% increase** in students achieving **Level 4+ at KS2** having followed the Numicon approach

**72% increase** in students achieving **Level 5 at KS2** having followed the Numicon approach

“ High-quality teaching secures pupils’ understanding of structure and relationships in number. ”

From 'Good practice in primary mathematics: evidence from 20 successful schools.' HMI Ofsted Report, November 2011.

# Creating a number-rich environment

A big part of imbedding the Numicon approach is creating an interactive maths environment in the classroom – displays that pose questions and challenges that children can go back to and work from.

The Numicon website has lots of ideas and downloads for you to use in your displays – here are a few examples of how those downloadable resources have been used.



You can download a wide range of resources to display from the Numicon website, which create fantastic working walls.



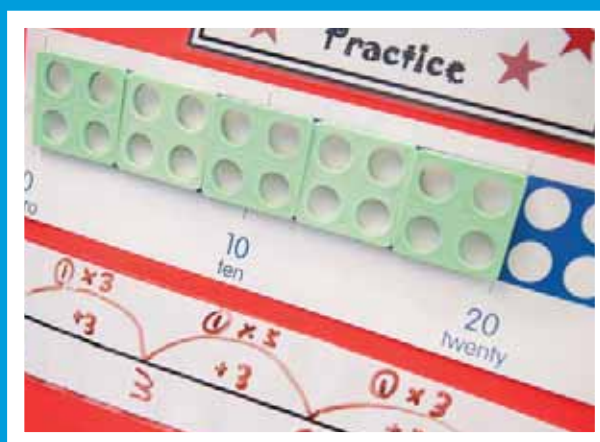
Download shapes and numerals from the Numicon website to create your own labels for anything from drawer fronts to coat pegs.



Create classroom signs and wall displays using the Numicon Shapes – you can find these in our Sharing Corner online.



Using Numicon Shapes, coloured objects and number lines you can create exciting activities that are always accessible.



Pose questions and let children post answers on an interactive maths display.

**Top tip!**

Go to [www.numicon.com](http://www.numicon.com) and visit the Numicon 'Free Resources' page for information on all available downloads!

# Who is the Numicon approach for?

Discover a multi-sensory approach to teaching maths that raises children's achievement and increases their confidence. Numicon is suitable for ages 3–7+ and includes resources for use at home and for quality first and SEN teaching.

## Ages 3–5



Children's early experiences of maths have a huge impact on their later achievement. Our resources for Nursery and Foundation Stage give children a sound start to maths through playful and innovative activities.

In the 1<sup>st</sup> Steps with Numicon in the Nursery Kit, Nursery practitioners are given straightforward explanations and guidance throughout the Teaching Guide.

The Numicon Firm Foundations Kit provides a great follow on from the 1<sup>st</sup> Steps with Numicon in the Nursery Kit, helping children develop a secure understanding of the vital early ideas.

## Ages 5–7+



Numicon Kits 1 and 2 cover KS1 of the National Curriculum (levels 1–2b and 2b–3 respectively). Numicon Kit 1 offers guidance on handling the transition from early years and goes on to introduce children to many big ideas which will form the basis for later work in Numicon Kit 2.

Numicon Kit 3 is the first kit that takes the Numicon approach into KS2.

For those who'd like to challenge pupils even further, our Investigations with Numicon Teaching Guide and resources can stretch the gifted and talented, from ages 7–11.

## SEN & Intervention



It is well documented that pupils with special educational needs learn most effectively through multi-sensory teaching. The Numicon approach's emphasis on doing and seeing alongside speaking and listening capitalises on pupils' visual and kinesthetic strengths. Our Closing the Gap with Numicon Kit has been specially designed with this in mind.

### Numicon Intervention Programme

The programme works for any school interested in maths intervention for pupils over 6 years of age working up to NC level 2a.

## Parents/Home Educators



For parents and carers who would like to support their child's maths at home, we have our 1<sup>st</sup> Steps with Numicon at Home Kit, which covers pattern, number and very early addition. The kit is suitable for ages 3–5 and many parents go on to use our core kits with their older children.

Free support, games and activities are also available on Oxford Owl [www.oxfordowl.co.uk](http://www.oxfordowl.co.uk)



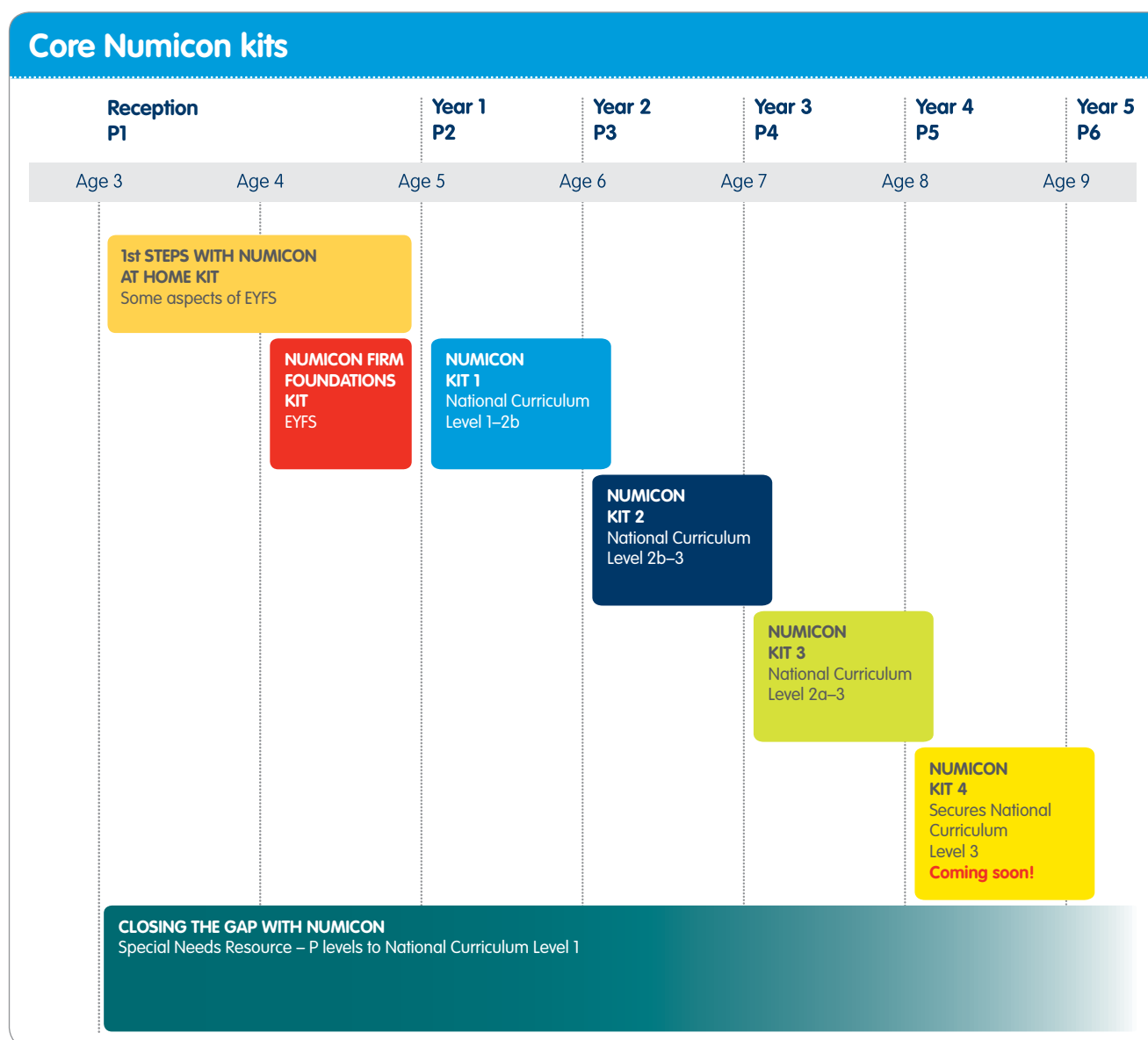
# The core Numicon kits

This section contains details about all of our kits, which form the core of the Numicon approach. If you are unsure which resources are best suited to your particular setting please refer to the previous section, 'Who is the Numicon approach for?'.

## Core Kits Overview Chart

All Numicon kits include a teaching guide, activities and photocopy masters to help you embed the approach in your classroom and when working with smaller groups. As well as teaching support, each kit includes the relevant apparatus to deliver the Numicon activities.

The chart below outlines the levels and ages that correlate to the core Numicon kits.



“ ... a high profile is given to developing mathematical language and mental mathematics. ”

From 'Good practice in primary mathematics: evidence from 20 successful schools.' HMI Ofsted Report, November 2011.



# Resources for early years and parents

EYFS Resources		What's Covered?	Level/Age
<p><b>1<sup>st</sup> Steps with Numicon in the Nursery Kit</b></p> 	<p>A key feature of this resource is the focus on maths conversation with ideas to encourage mathematical development throughout the pre-school setting, which will help give children a sound start to their maths understanding.</p> <p>The Teaching Guide explains the key mathematical ideas and contains innovative, playful activities, which are set out in the following groups: mathematics on the carpet, in water play, in messy play, in sand play, in outdoor play, in small-world play, in tabletop play and at snack time.</p>	<p><b>Ages 3–5 EYFS/P1</b></p>	
<p><b>Numicon Firm Foundations Kit Class &amp; One-to-One Kit</b></p> 	<p>Designed for all early years settings this resource gives teachers practical ideas to develop children's understanding of numbers and number relationships. The easy-to-follow programme of activities helps to develop children's concept image of number through learning the Numicon Shapes and Patterns, recognising and ordering numerals and learning their values, and beginning practical addition and subtraction.</p> <p>The Assessment Tools are linked to the EYFS development bands and provide a useful way of tracking pupils' progress.</p>	<p><b>Ages 4–5 EYFS/P1</b></p>	
<p><b>Numicon at the Seaside – Big Book Class Kit</b></p> 	<p>Through a series of illustrations and songs this resource introduces the Numicon Patterns and activities with images of the seaside. The set is supplied with four small copies of the big book for sharing, a CD of the ten songs and a teaching guide, which contains suggestions for questioning and discussion along with photocopy activities for school and homework.</p> <p>This product is designed to help children aged 3–5 develop a rich understanding of number ideas. It is intended to be used alongside the Numicon Firm Foundations Kit and 1<sup>st</sup> Steps with Numicon in the Nursery.</p>	<p><b>Ages 3–5 EYFS/P1</b></p>	
Resources for Parents		Kit Contents	Level/Age
<p><b>1<sup>st</sup> Steps with Numicon at Home Kit</b></p> 	<ul style="list-style-type: none"> <li>● 1<sup>st</sup> Steps with Numicon at Home – Book of Activities (1)</li> <li>● Numicon Shapes (32)</li> <li>● Numicon Coloured Pegs (52)</li> <li>● Numicon Feely Bag (1)</li> <li>● Numicon Zig Zag Book (1)</li> <li>● Numicon Threading Laces (3)</li> <li>● Numicon Baseboard (1)</li> <li>● Numicon Picture Baseboard Overlays (2)</li> <li>● Numicon 0–10 Numeral Cards (1)</li> </ul> <p>ISBN 978-0-19-848688-6      <b>£32.00</b> +VAT</p>	<p><b>Ages 3–5</b></p>	

Class Kit Contents	One-to-one Kit Contents	Curriculum-matched
<ul style="list-style-type: none"> <li>● 1<sup>st</sup> Steps with Numicon in the Nursery – Teaching Guide (1)</li> <li>● Numicon Shapes (115)</li> <li>● Numicon Coloured Pegs (80)</li> <li>● Numicon Feely Bag (1)</li> <li>● Numicon Threading Laces (3)</li> <li>● Numicon Baseboards (2)</li> <li>● Numicon Picture Baseboard Overlays (6)</li> <li>● Numicon Display Number Line (1)</li> </ul> <p><b>ISBN 978-0-19-848690-9</b>                      <b>£89.00 +VAT</b></p>	N/A	
<ul style="list-style-type: none"> <li>● Numicon Firm Foundations Teaching Guide (1)</li> <li>● Numicon Shapes (160)</li> <li>● Numicon Coloured Pegs (160)</li> <li>● Numicon Baseboards (2)</li> <li>● Numicon Picture Baseboard Overlays (6)</li> <li>● Numicon Number Bond Baseboard Overlays (6)</li> <li>● Numicon Feely Bag (1)</li> <li>● Numicon Spinners (2)</li> <li>● Numicon Display Number Line (1)</li> <li>● Magnetic strip (1)</li> </ul> <p><b>ISBN 978-0-19-848691-6</b>                      <b>£145.00 +VAT</b></p>	<ul style="list-style-type: none"> <li>● Numicon Firm Foundations Teaching Guide (1)</li> <li>● Numicon Shapes (80)</li> <li>● Numicon Pegs (80)</li> <li>● Numicon Baseboards (2)</li> <li>● Numicon Picture Baseboard Overlays (6)</li> <li>● Numicon Number Bond Baseboard Overlays (6)</li> <li>● Numicon Feely Bag (1)</li> <li>● Numicon Spinners (2)</li> <li>● Large Format Table-top Number Line (1)</li> </ul> <p><b>ISBN 978-0-19-848692-3</b>                      <b>£105.00 +VAT</b></p>	<ul style="list-style-type: none"> <li>● Supports the Renewed Framework for Mathematics</li> <li>● Supports the Curriculum for Excellence</li> </ul>
<ul style="list-style-type: none"> <li>● Numicon at the Seaside Big Book (1)</li> <li>● Numicon at the Seaside Teaching Guide (1)</li> <li>● Numicon at the Seaside Small Books (4) (for group reading)</li> <li>● Numicon at the Seaside Music CD (1)</li> </ul> <p><b>ISBN 978-0-19-848703-6</b>                      <b>£41.00 +VAT</b></p>	N/A	

Resources for Parents	Kit Contents	Level/ Age
<p><b>Numicon at the Seaside – At Home Kit</b></p> 	<ul style="list-style-type: none"> <li>● Numicon at the Seaside (small book) (1)</li> <li>● Guidance notes for parents (1)</li> <li>● Numicon at the Seaside Music CD (1)</li> </ul> <p><b>ISBN 978-0-19-848704-3</b>                      <b>£12.00 +VAT</b></p> <p>Available as a bundle with 1<sup>st</sup> Steps with Numicon at Home Kit.</p> <p><b>ISBN 978-0-19-848689-3</b>                      <b>£37.00 +VAT</b></p>	<p><b>Ages 3–5</b></p>

# Resources for Years 1–2 | Primary 3–4

KS1/ P2–3 Resources	What's Covered?	Level/Age
<p><b>Numicon Kit 1</b> Class &amp; One-to-One Kit</p> 	<p>Covering NC levels 1–2b (Yr 1/P2) Numicon Kit 1 builds on the ideas covered in the Numicon Firm Foundations Kit and the Closing the Gap with Numicon Kit.</p> <p>The Numicon Shapes feature throughout the teaching programme, although at this stage we also suggest the introduction of number rods so a set of Numicon Number Rod Trays is included.</p> <p>Ideas covered in Kit 1 include: signs of arithmetic notation <math>+</math> <math>-</math>, consolidation of <math>\pm</math> facts to 10, place value <math>\pm</math> to 100. Suitable for pupils working at National Curriculum levels 1 and 2.</p>	<p><b>Ages 5–6</b> <b>Yr1/P2</b> NC level 1–2b</p>
<p><b>Numicon Kit 2</b> Class &amp; One-to-One Kit</p> 	<p>Covering NC Levels 2b–3 (Yr 2/P3) Numicon Kit 2 builds on the ideas covered in Kit 1. Both Numicon Shapes and number rods continue to be used extensively throughout the activities so, in addition to the Numicon Number Rod Trays, this kit includes a Numicon 1–100 cm Number Rod Track.</p> <p>Ideas covered in Kit 2 include: developing further mental arithmetic strategies in <math>\pm</math> to 100, place value, multiplication, division, and introducing fractions. Suitable for pupils working at National Curriculum levels 2 and 3.</p>	<p><b>Ages 6–7</b> <b>Yr2/P3</b> NC level 2b–3</p>

## Conversion to Numicon Kit 1

Conversion kits provide the teaching guides and equipment not included in earlier kits to prevent duplication of equipment. Purchase Conversion to Kit 1 to convert the Firm Foundations Kit or the Closing the Gap Kit to Numicon Kit 1.

### Kit contents

- Numicon Kit 1 Teaching Guide (1)
- Numicon Arithmetic Story Cards (1)
- Numicon 0–100 cm Number Line (1)
- Numicon 10s Number Line (1)
- Numicon Card 1–100 Number Track (1)
- Numicon 0–100 Numeral Cards (1)
- Numicon Post Box (3)
- Numicon Number Rod Trays 1–10 and 20 (1)

ISBN 978-0-19-848695-4

£99.50 +VAT



## Conversion to Numicon Kit 2

For teachers already using Numicon Kit 1, the Conversion to Kit 2 pack gives you the extra resources you need to use Kit 2 activities in a Year 1/P2 classroom. This could be used to stretch the most able children in your class. Similarly, a Year 2/P3 teacher using Kit 1 and 2 together for differentiation, would only need to buy the Kit 2 conversion pack.

### Kit contents

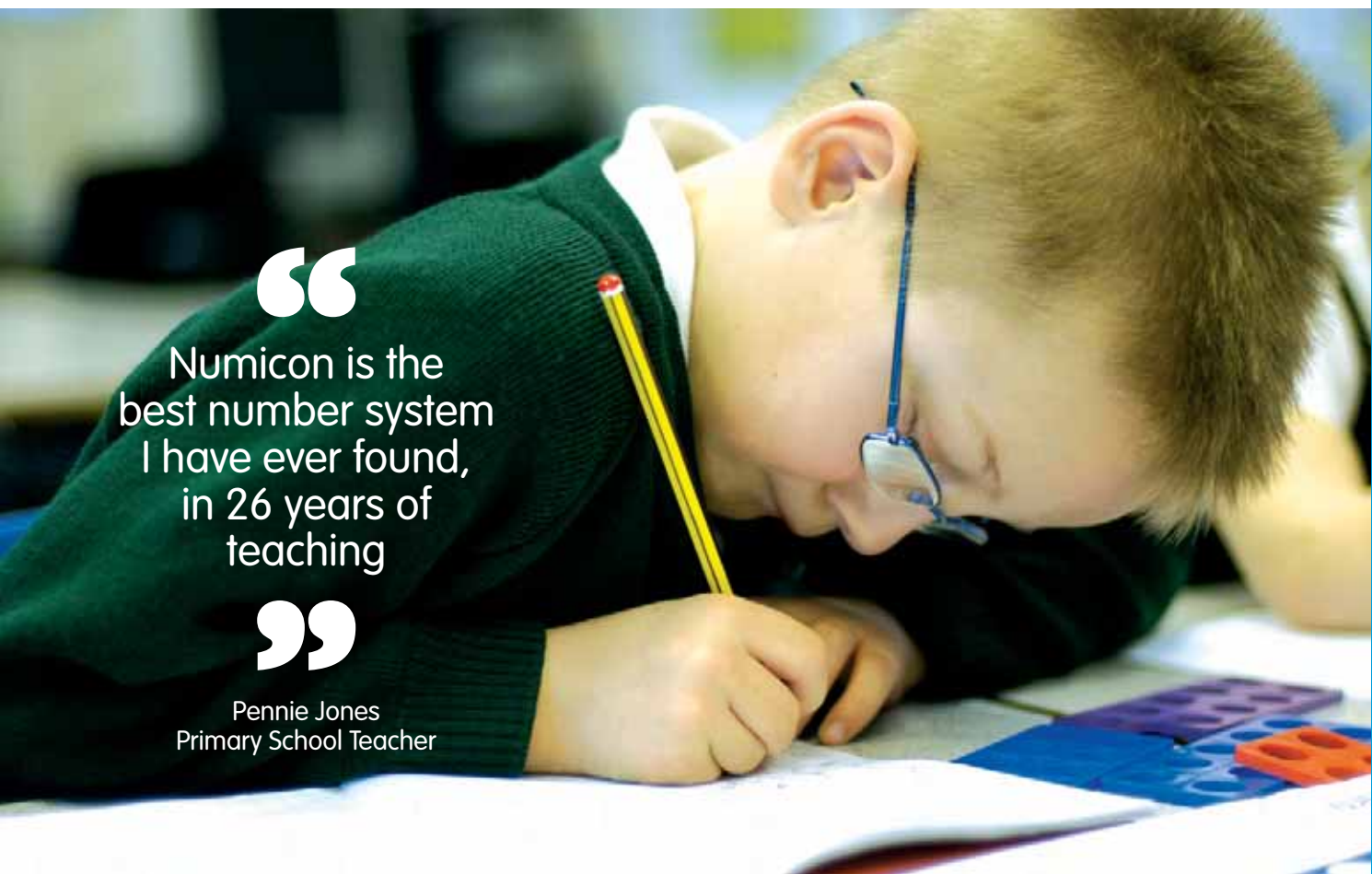
- Numicon Kit 2 Teaching Guide (1)
- Numicon 1–100 cm Number Rod Track

ISBN 978-0-19-848698-5

£79.00 +VAT



Class Kit Contents	One-to-one Kit Contents	Curriculum-matched
<ul style="list-style-type: none"> <li>● Numicon Kit 1 Teaching Guide (1)</li> <li>● Numicon Shapes (160)</li> <li>● Numicon Coloured Pegs (160)</li> <li>● Numicon Baseboards (2)</li> <li>● Numicon Feely Bag (1)</li> <li>● Numicon Spinners (3)</li> <li>● Numicon Post Box (3)</li> <li>● Numicon Display Number Line (1)</li> <li>● Numicon 10s Number Line (1)</li> <li>● Numicon Card 1-100 Number Track (1)</li> <li>● Numicon 0-100 Numeral Cards (1 pack)</li> <li>● Numicon Arithmetic Story Cards (1)</li> <li>● Numicon 0-100 cm Number Line (1)</li> <li>● Numicon Number Rod Trays 1-10 and 20 (1)</li> <li>● Magnetic Strip (1)</li> </ul> <p><b>ISBN 978-0-19-848693-0</b>      <b>£185.00 +VAT</b></p>	<ul style="list-style-type: none"> <li>● Numicon Kit 1 Teaching Guide (1)</li> <li>● Numicon Shapes (80)</li> <li>● Numicon Coloured Pegs (80)</li> <li>● Numicon Baseboards (2)</li> <li>● Numicon Feely Bag (1)</li> <li>● Numicon Spinners (2)</li> <li>● Numicon Post Box (3)</li> <li>● Large Format Table-top Number Line (1)</li> <li>● Numicon 10s Number Line (1)</li> <li>● Numicon Card 1-100 Number Track (1)</li> <li>● Numicon 0-100 Numeral Cards (1 pack)</li> <li>● Numicon Arithmetic Story Cards (1)</li> <li>● Numicon 0-100 cm Number Line (1)</li> <li>● Numicon Number Rod Trays 1-10 and 20 (1)</li> </ul> <p><b>ISBN 978-0-19-848694-7</b>      <b>£150.00 +VAT</b></p>	<ul style="list-style-type: none"> <li>● Supports the Renewed Framework for Mathematics</li> <li>● Supports the Curriculum for Excellence</li> </ul>
<ul style="list-style-type: none"> <li>● Numicon Kit 2 Teaching Guide (1)</li> <li>● Numicon Shapes (160)</li> <li>● Numicon Feely Bag (1)</li> <li>● Numicon Spinners (3)</li> <li>● Numicon Post Box (3)</li> <li>● Numicon Display Number Line (1)</li> <li>● Numicon 10s Number Line (1)</li> <li>● Numicon Card 1-100 Number Track (3)</li> <li>● Numicon 0-100 Numeral Cards (3 packs)</li> <li>● Numicon 0-100 cm Number Line (3)</li> <li>● Numicon Number Rod Trays 1-10 and 20 (1)</li> <li>● Numicon 1-100 cm Number Rod Track (3)</li> <li>● Magnetic Strip (1)</li> </ul> <p><b>ISBN 978-0-19-848696-1</b>      <b>£210.00 +VAT</b></p>	<ul style="list-style-type: none"> <li>● Numicon Kit 2 Teaching Guide (1)</li> <li>● Numicon Shapes (80)</li> <li>● Numicon Feely Bag (1)</li> <li>● Numicon Spinners (2)</li> <li>● Numicon Post Box (3)</li> <li>● Large Format Table-top Number Line (1)</li> <li>● Numicon 10s Number Line (1)</li> <li>● Numicon Card 1-100 Number Track (1)</li> <li>● Numicon 0-100 Number Cards (1 pack)</li> <li>● Numicon 0-100 cm Number Line (1)</li> <li>● Numicon Number Rod Trays 1-10 and 20 (1)</li> <li>● Numicon 1-100 cm Number Rod Track (3)</li> </ul> <p><b>ISBN 978-0-19-848697-8</b>      <b>£150.00 +VAT</b></p>	<ul style="list-style-type: none"> <li>● Supports the Renewed Framework for Mathematics</li> <li>● Supports the Curriculum for Excellence</li> </ul>



“  
 Numicon is the  
 best number system  
 I have ever found,  
 in 26 years of  
 teaching

”  
 Pennie Jones  
 Primary School Teacher

# Resources for Years 3–6 | P4–7

KS2/P4 Resources	What's Covered?	Level/Age
 <p><b>Numicon Kit 3</b> Class &amp; One-to-One Kit</p>	<p>Numicon Kit 3 provides the core materials you need to start using Numicon with children aged 7–8. It extends the Numicon multi-sensory approach to maths with step-by-step activities for developing children's understanding of more complex concepts. It offers greater emphasis on problem solving from real-world contexts plus practical guidance for teachers and easy-to-use planning and assessment support.</p> <p>Numicon Kit 3 provides step-by-step activities for the whole class, group, pairs and individuals across three strands: Pattern and Algebra, Numbers and the Number System, and Calculating. The Numicon Kit 3 Teaching Guide includes easy-to-use Planning and Resources Software with printable photocopy masters and classroom displays plus editable medium- and long-term planning support.</p>	<p><b>Ages 7–8</b> <b>Yr3/P4</b> NC level 2a–3</p>

## Investigations with Numicon KS2–3 | P4–7+

Investigations with Numicon teaching book contains ten open-ended investigations with a low threshold and high ceiling.

All the activities start with the use of Numicon Shapes and number rods to allow the majority of pupils to be involved at a basic level. Gifted and talented children can develop their skills by taking the investigations to higher levels. By using the Numicon Shapes and Cuisenaire rods the investigations are dynamic, helping children to recognise that numbers form a highly organised system full of many patterns.

All the investigations can be taken to higher levels of KS2/P4–7, and some can be extended into KS3/P7+. The investigations give children opportunities to use and apply their number understanding and to extend their mathematical thinking, for conjecture, trial and improvement, logical thinking about numbers and careful mathematical deduction. Children will also see the advantage of setting out their work systematically to reveal emerging patterns and demonstrate their thinking.

### Investigations with Numicon

ISBN 978-0-95-539496-6

£28.00

If schools already have Numicon resources available then these can be used to work with Investigations with Numicon. If this is not the case we recommend the following materials are purchased alongside:

### Supplementary resources recommended for working with six pupils:

- Numicon Feely Bag (3)
- Numicon Shapes (80)
- Number rods (large set of 306)
- Numicon 1–100 cm Number Rod Track (3)
- Numicon 10s Number Line (3)

ISBN 978-0-19-848707-4

£110.00 +VAT



Class Kit Contents	One-to-one Kit Contents	Curriculum-matched
<ul style="list-style-type: none"> <li>● Numicon Kit 3 Teaching Guide with planning and resources software (1)</li> <li>● Numicon Kit 3 Activity Handbook (1)</li> <li>● Numicon Shapes (160)</li> <li>● Numicon Feely Bag (1)</li> <li>● Numicon Coloured Pegs (80)</li> <li>● Numicon Coloured Counters (200)</li> <li>● Numicon Spinners (4)</li> <li>● Numicon Display Number Line (1)</li> <li>● Numicon 10s Number Line (4)</li> <li>● Numicon 0–100 Numeral Cards (1 pack)</li> <li>● Numicon 0–100 cm Number Line (3)</li> <li>● Numicon 1–100 cm Number Rod Track (3)</li> <li>● Numicon Baseboard Laminates (3)</li> <li>● Extra Numicon 10-shapes (30)</li> <li>● Extra Numicon 1-shapes (100)</li> </ul>	<ul style="list-style-type: none"> <li>● Numicon Kit 3 Teaching Guide with planning and resources software (1)</li> <li>● Numicon Kit 3 Activity Handbook (1)</li> <li>● Numicon Shapes (80)</li> <li>● Numicon Feely Bag (1)</li> <li>● Numicon Coloured Pegs (80)</li> <li>● Numicon Coloured Counters (200)</li> <li>● Numicon Spinners (2)</li> <li>● Large Format Table-top Number Line (1)</li> <li>● Numicon 10s Number Line (1)</li> <li>● Numicon 0–100 Numeral Cards (1 pack)</li> <li>● Numicon 0–100 cm Number Line (1)</li> <li>● Numicon 1–100 cm Number Rod Track (3)</li> <li>● Numicon Baseboard Laminates (3)</li> <li>● Extra Numicon 10-shapes (10)</li> <li>● Extra Numicon 1-shapes (20)</li> </ul>	<ul style="list-style-type: none"> <li>● Supports the Renewed Framework for Mathematics</li> <li>● Supports the Curriculum for Excellence</li> <li>● Supports the Northern Ireland Curriculum for Mathematics and Numeracy</li> <li>● Supports Mathematics in the National Curriculum for Wales</li> </ul>
<p>ISBN 978-0-19-833094-3      £290.00 +VAT</p>	<p>ISBN 978-0-19-833095-0      £185.00 +VAT</p>	

**Top tip!**

Download full curriculum matching charts for Numicon Kit 3 at [www.numicon.com](http://www.numicon.com).



“

... schools emphasised practical, hands-on activities, with a high profile given to developing mathematical language and mental mathematics, coupled with visual images and physical representations of sharing, grouping, arrays and patterns.


”

From 'Good practice in primary mathematics: evidence from 20 successful schools.' HMI Ofsted Report, November 2011.

# Resources for SEN and Intervention

SEN Resource	What's Covered?	Level/Age
<p><b>Closing the Gap with Numicon Group &amp; One-to-one Kit</b></p> 	<p>Closing the Gap with Numicon has been designed specifically for pupils with SEN or those who are having difficulty in basic number understanding. The teaching file offers solutions to pupils' difficulties to support teachers in their assessment, planning and teaching.</p> <p>The programme of small-step activities is suitable for pupils working at P-levels to NC level 1 and follows the typical acquisition of early number skills, addressing the acquisition of numerosity (awareness of the number of objects in a set), counting, the ability to recognise and exploit pattern, and early computation.</p>	<p><b>Non-age specific (P-levels up to NC level 1)</b></p>
	<p><b>Group Kit Contents</b></p> <ul style="list-style-type: none"> <li>● Closing the Gap with Numicon Teaching Guide (1)</li> <li>● Numicon Shapes (160)</li> <li>● Numicon Coloured Pegs (160)</li> <li>● Numicon Baseboards (6)</li> <li>● Numicon Feely Bag (3)</li> <li>● Numicon Spinners (6)</li> <li>● Numicon Large Format Table-top Number Line (3)</li> <li>● Numicon Number Bond Baseboard Overlays (6)</li> <li>● Numicon Picture Baseboard Overlays (6)</li> </ul> <p>ISBN 978-0-19-848699-2      <b>£182.00</b> +VAT</p>	

## Numicon Homework Activities Intervention Resource



The Numicon Homework Activities are designed to enable children to practice at home what they are learning in school. The playful activities and games develop skills in the following areas: counting, adding and subtracting facts, place value and recognition of the inverse relationship between adding and subtracting. They enable parents to get involved without actually 'teaching' their children.

The activities are simple for schools to administer and come with comprehensive guidance for teachers. They are supplied on a CD for teachers to print so children can take them home. Each game and activity comes with clear and easy to follow instructions for parents.

Schools should also purchase 'Maths Bags'\*. These contain the resources needed to complete the games and activities.

\* The Numicon Homework Activities Intervention Resource CD and the 'Maths Bags' are separate items. It is recommended that each child has their own Maths Bag.

**What is included on the CD?**

- 43 activities linked to what the children are learning in school
- Comprehensive advice for teachers
- Feedback sheets to be completed by the children and parents
- Record sheets for teachers and explanatory information for parents, including a PDF presentation that schools can use to introduce parents to the resources.

**Numicon Homework Activities Intervention Resource CD**

ISBN 978-0-19-848705-0      **£58.00** +VAT

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**'Maths Bag' of resources per pupil:**

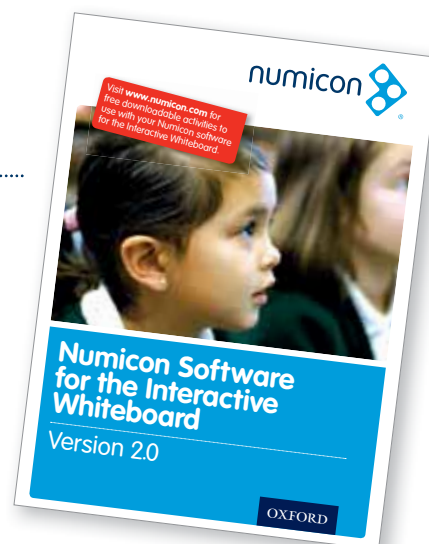
- Numicon Shapes (20)
- Extra Numicon 10-shapes (10)
- Numicon Large Format Table-top Number Line (1)
- Numicon Coloured Counters (60)
- Numicon Feely Bag (1)
- Numicon Dice (0-5, 5-10 and +/-) (4)
- Numicon 0-21 Numeral Cards (1 set)

**Numicon Homework Activities Intervention Resource – Maths Bag**

ISBN 978-0-19-848706-7      **£11.50** +VAT

# Numicon Software for the Interactive Whiteboard

Use the Interactive Whiteboard Software to create dynamic teaching sessions that introduce key mathematical ideas to the whole class. Workspaces and resources include: number lines, objects for counting, coins, number generators, hoops to use in sorting, division, fractions and much more. Pictures of everyday objects help children use and apply their arithmetic.



Now on CD-ROM for easy installation

Includes interactive versions of Numicon apparatus such as the pan balance to show equivalence.

Includes scrolling Numicon number line up to 21.

## New and improved features for version 2.0

- Fresh, easy-to-use design offering group selection
- Integrated pen/eraser tool with colours and highlighting options
- Larger screen resolution to allow more objects on the workspace
- Improved tool palettes for rotating and grouping shapes and objects
- Improved functionality with workspaces linked to resources
- Scrolling Numicon Number Line up to 21
- Extended range of resources with blank spinners and more fractions.

### Numicon Software for the Interactive Whiteboard – Single User Licence

ISBN 978-0-19-848790-6 £95.00 +VAT

### Numicon Software for the Interactive Whiteboard – Unlimited User Licence

ISBN 978-0-19-848789-0 £184.00 +VAT



For a truly multi-sensory experience when using the Software, why not give each child a set of Numicon 1–10 Shapes, which they can hold up in response to questions?

# Teaching support

The most important element of our core kits 1–3 are the printed teaching materials. These contain teaching guidance and activities, with step-by-step illustrated support and ideas to help children make connections and use and apply their understanding. The teaching materials include:

## Getting Started

A useful introduction for new users.

## Putting the Numicon approach into practice

This provides suggestions for teaching approaches, organisation and the learning environment.

## Activity groups

Easy to follow and clearly illustrated step-by-step activities. The structure of the groups are explained in more detail on the next page.

## Key mathematical ideas

This section supports teacher’s subject knowledge of the key mathematical ideas covered in the activities.

## Long- and medium-term planning support

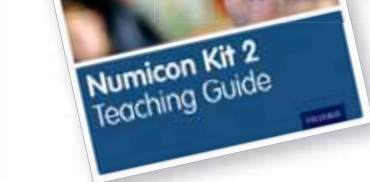
Easy-to-use detailed and high level planning sheets.

## Assessment tools/ signposts

A variety of tools to help monitor pupils’ progress including suggestions of what to look and listen for during the activities and advice on how to support those who struggle to make progress.

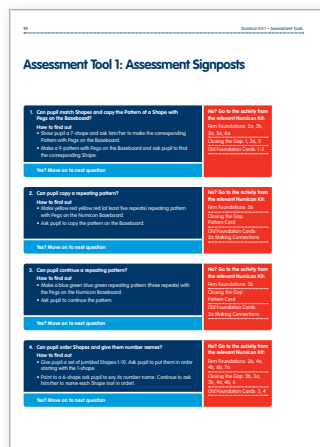
## Photocopy masters

Photocopiable templates to support activities in the classroom.

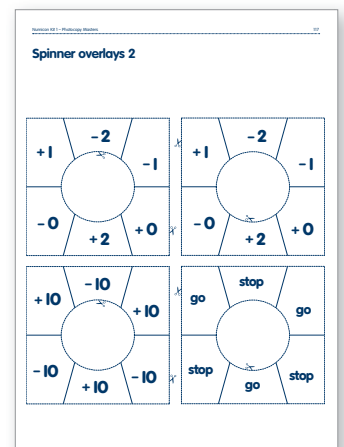


“ Everything you need to teach Numicon effectively – all in one convenient place. ”

Lucy Haverty  
Primary School Teacher



Assessment signposts



Photocopy masters

The Numicon teaching materials are available to purchase separately. See the order form for full pricing information.

## A guide to the activity groups

In this sample activity group, which is taken from the Numicon Kit 1 Teaching Guide you can see the typical layout and support of each activity. Each activity is illustrated, highlights mathematical language to be used and offers suggested extension activities.

### Activities

These step-by-step activities, clearly illustrated with colourful images, form the core of the Numicon teaching programme and can be revisited many times.

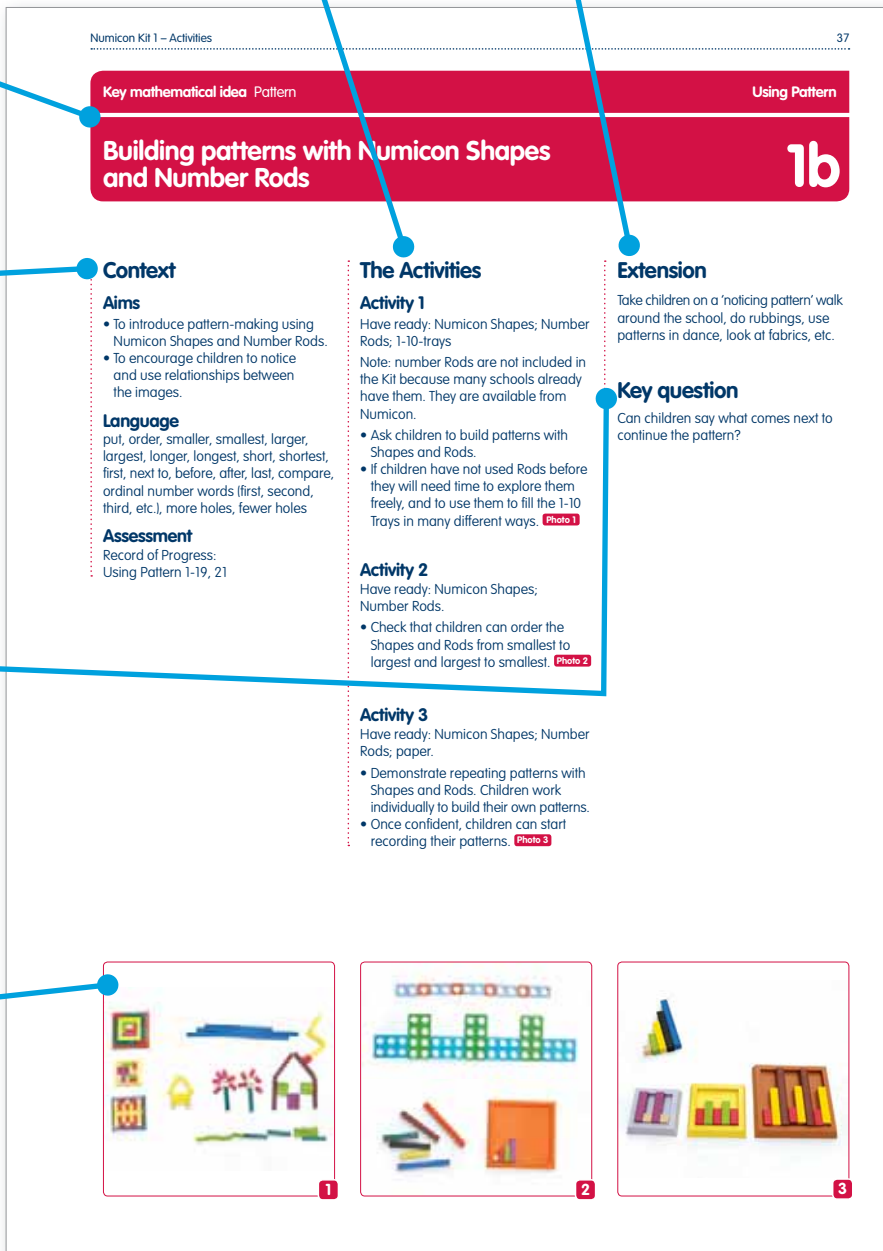
### Extension

Extension work contextualises the activities and offers suggestions for independent practice to build children's understanding.

### Title bar

The key mathematical ideas and strand are highlighted in the title bar.



The screenshot shows a page from the Numicon Kit 1 Teaching Guide. At the top, a red title bar contains the text 'Key mathematical idea Pattern' and 'Using Pattern'. Below this, the main title 'Building patterns with Numicon Shapes and Number Rods' is displayed in white on a red background, with the code '1b' in the top right corner. The page is divided into three columns: 'Context', 'The Activities', and 'Extension'. The 'Context' column includes 'Aims', 'Language', and 'Assessment' sections. 'The Activities' column contains three numbered activities with their respective materials and instructions. The 'Extension' column includes a 'Key question'. At the bottom of the page, there are three numbered photographs: Photo 1 shows a house made of shapes, Photo 2 shows a bar chart made of rods, and Photo 3 shows various rods and shapes.

### Context

The aims of the activity group, the all-important mathematical language that children will learn and use during the activity, and the assessment reference.

**Context**

**Aims**

- To introduce pattern-making using Numicon Shapes and Number Rods.
- To encourage children to notice and use relationships between the images.

**Language**

put, order, smaller, smallest, larger, largest, longer, longest, short, shortest, first, next to, before, after, last, compare, ordinal number words (first, second, third, etc.), more holes, fewer holes

**Assessment**

Record of Progress:  
Using Pattern 1-19, 21

### Key question

The key question section of an activity is an assessment tool for teachers to indicate whether a child understands the ideas introduced by the activities.

**The Activities**

**Activity 1**

Have ready: Numicon Shapes; Number Rods; 1-10-Trays

Note: number Rods are not included in the Kit because many schools already have them. They are available from Numicon.

- Ask children to build patterns with Shapes and Rods.
- If children have not used Rods before they will need time to explore them freely, and to use them to fill the 1-10 Trays in many different ways. **Photo 1**

**Activity 2**

Have ready: Numicon Shapes; Number Rods.

- Check that children can order the Shapes and Rods from smallest to largest and largest to smallest. **Photo 2**

**Activity 3**

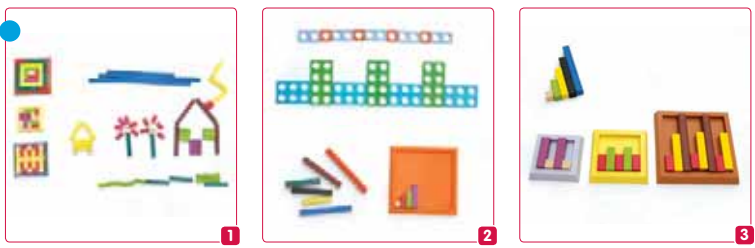
Have ready: Numicon Shapes; Number Rods; paper.

- Demonstrate repeating patterns with Shapes and Rods. Children work individually to build their own patterns.
- Once confident, children can start recording their patterns. **Photo 3**

### Images

Illustrations support teachers and teaching assistants in setting up the resources and following the activities.



The three photographs are: 1. A house-like shape constructed from various Numicon shapes. 2. A bar chart where the height of each bar is determined by the number of rods used. 3. A collection of Numicon rods and shapes arranged in a tray.

# Numicon Professional Development

## Raising maths achievement

Our accredited professional development helps education professionals realise Numicon's potential to transform children's attitudes to maths and significantly increase their achievement.

Participants on our courses will feel inspired, confident and keen to start using Numicon straight away, whether in the classroom, in support groups or one-to-one.

## Building mathematical understanding

### Working with you in your school

Our accredited consultants offer a range of training and support to get you started in using Numicon but also to help develop subject knowledge and build your confidence in teaching maths.

In-school training is usually delivered as a full or half day, which can be refreshed or extended to suit the needs of you and your staff at any time.

### Who would benefit from this training?

Maths coordinators, class teachers and teaching assistants who are responsible for teaching maths to pupils aged 3–11.

### What is covered?

The training follows the pedagogical principles that underpin the Numicon approach and gives participants the opportunity to work with the Numicon resources in practical, hands on sessions. Guidance is given on the best ways of using Numicon in context to get the most out of the resources in every classroom.

### When and where does the training take place?

You tell us when you'd like to book the training and we arrange for a consultant to visit you in school.



### The Numicon Intervention Programme

Developed specifically to support Every Child Counts but applicable to any pupils aged over 6 years working up to NC level 2a, the intervention is designed to be conducted by a TA or teacher following specific training from an independent Numicon Consultant.

The programme uses the Numicon approach to maximise opportunities to blend action and imagery with pupils' use of mathematical language and symbols.

Intervention training is run once a term at a central location. For more information, contact us using the details below.

### How do I book?

For more information or to book any of our courses, please contact our Professional Development Coordinator at [primary.training.uk@oup.com](mailto:primary.training.uk@oup.com) or on **01865 353735** who will discuss your requirements and put you in touch with a suitable trainer to arrange dates and fees.

Name of Training	What's involved	How much does it cost	Maximum numbers
Full day training	5 hour session	From £625	30
Half day training	3 hour session	From £500	30
Twilight package	2 x 2 hours sessions	From £550	30

### How do I book?

For more information or to book any of our courses, please contact our Professional Development Coordinator at [primary.training.uk@oup.com](mailto:primary.training.uk@oup.com) or on **01865 353735** who will discuss your requirements and put you in touch with a suitable trainer to arrange dates and fees.

Schools based outside the UK should contact **+44 (0) 1865 354240** for information on any of our training courses.

## Kick start 2012 with our Getting Started PD and resources pack!

To effectively start using Numicon across the school, we've put together a pack which includes professional development, core resources and teaching materials as well as software. This pack is suitable for a single-form entry school (assuming classes have a max of 30 pupils) and offers great value if ordered through your local rep. Make the most of this amazing discount and book your appointment today by calling **01536 452610**.

**Saving you  
£515.27**

**30% Discount**  
On your second day of professional development when you order through your local rep!

**15% Discount**  
On all listed resources if you order through your local rep!

### What's included?

- Two days accredited professional development for 30 members of staff
- All core Numicon class kits and extra resources from Nursery to Yr3/P4
- Extra teaching guides and conversion kits for differentiation
- Numicon Software for the Interactive Whiteboard – unlimited licence
- Investigations with Numicon Teaching Guide for Yr3–6/P4–7
- Closing the Gap Kit for SEN/Intervention
- All necessary accessories including number rods, Numicon Number Lines and Numicon Pan Balances

**Full package worth over £3,500**

“Extremely useful training, wish I'd had this knowledge of teaching numeracy years ago! Can't wait to give it a go!”

Julie Cluness, Priory Primary School

### Working with Numicon DVD

The Working with Numicon DVD is a great resource to share with your staff after attending one of our accredited courses.

The DVD and accompanying booklet is organised into six sections with guidance on key points for discussion and practical activities.

The DVD shows teachers using Numicon within their usual daily lessons. They each explain ways of using Numicon and how it supports their teaching. It illustrates how the teaching programme can significantly raise children's confidence, understanding and achievement.

ISBN 978-0-19-848708-1

£94.00 +VAT

**Great supplementary resource that complements in your whole school pack!**



# Teaching accessories

All Numicon apparatus are available separately, making it easy to stock up on what you need. Not all accessories are featured in the kits but we recommend items like the Numicon Pan Balance, for showing equivalence, and number rods as 'must haves' for your classroom.

## Number lines, tracks and number rods

The Numicon Number Lines are integral to many of the Numicon activities and help to raise the profile of numbers in the classroom. Number rods provide another format structured imagery to help enrich number understanding. Number rods can be used in picture and pattern making and alongside Numicon Shapes. The colours of Numicon Shapes and number rods are deliberately different because it is not helpful for children to associate a number with any one colour. The rods are not graduated so they can be seen to represent different numbers in different situations. The possible values of number rods are seen when they are placed in relation to each other.



### Numicon Display Number Line

Each number 0–21 is marked with its Numicon Shape (real size), numeral and number word. Printed on card and laminated. Supplied in three sections, total length 286 cm.

ISBN 978-0-19-848714-2  
£11.00 +VAT



### Numicon Large Format Table-top Number Line

Table top version of the Display Number Line, covering shapes and numbers from 0 to 21. The Numicon Shapes are large enough for children to tell them apart in matching activities. The Numicon 10-shape is 3.2 cm high.

ISBN 978-0-19-848718-0  
£3.00 +VAT



### Numicon Table-top Number Lines

A smaller version of the Numicon Display Number Line – ideal for individuals who appreciate discreet support. Printed on card and laminated. Length 42 cm. Set of 5.

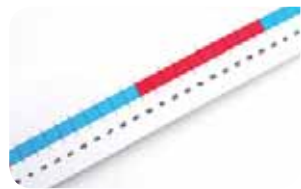
ISBN 978-0-19-848716-6  
£2.50 +VAT



### Numicon 10s Number Line

Numicon 10-shapes (real size) displayed end-to-end with marked multiples of 10 from 0–100. Use with Numicon Shapes in counting and arithmetic. Supplied in two sections, total length 138 cm.

ISBN 978-0-19-848717-3  
£3.50 +VAT



### Numicon 0–100 cm Number Line

Decade sections shown in red and blue with numerals 0–100 marked beneath in centimetre intervals. Can also be used with number rods which are centimetre scale. Length 101 cm. Set of 3.

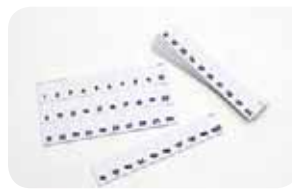
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### Numicon 0–100 Numeral Cards

One-sided 0–100 Numeral Cards. Useful for generating numbers. Each pack contains 9 blank cards.

ISBN 978-0-19-848719-7  
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### Numicon Card 1–100 Number Track

Ten lengths of card, with ten numerals on each from 1–100. Each decade section can be arranged horizontally or as an array to show connections and patterns between numerals.

ISBN 978-0-19-848713-5  
£3.50 +VAT



### Numicon Zig Zag Book

A beautifully illustrated number line from 1–10 with numerals, Numicon Shapes and pictures. Perfect for small hands to use as a counting book to connect the Numicon Shapes to arrangements of objects.

ISBN 978-0-19-848765-4  
£4.00 +VAT



### Number Rod Trays 1–10 and 20

These stacking, coloured trays match the number rods. Useful for building number bonds and pattern making. The 20 tray gives a picture of numbers and number relationships to 20.

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### Numicon 1–100 cm Number Rod Track

Useful for teaching place value, partitioning, multiplication and division. Decade sections fit together to total 100 cm. The track is grooved to take number rods.

ISBN 978-0-19-848711-1  
£8.00 +VAT



### Cuisenaire rods – Large Set

306 coloured number rods (centimetre-scale). Lengths 1 cm–10 cm. Includes durable plastic storage tray.

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### Cuisenaire rods – Small Set

126 coloured number rods (centimetre-scale). Lengths 1 cm–10 cm. Includes durable plastic storage tray.

ISBN 978-0-19-848710-4  
£22.00 +VAT

## Arithmetic practice

At each stage pupils enjoy repeating Numicon games and activities independently. In doing so they often make new discoveries. Repetition and practice helps them to learn number facts and builds their confidence.



### Numicon Post Box

Pupils take turns to 'post' questions and 'post back' answers. Used in conjunction with Numicon Kits 1 and 2. Set of 3.

ISBN 978-0-19-848734-0  
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### Numicon Arithmetic Story Cards

Pictures arranged in Numicon 1–10 Patterns. Useful as prompts for creating adding and subtracting stories.

ISBN 978-0-19-848737-1  
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### Bag of 1–10 Numicon Shapes

Use in whole-class sessions.

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30 sets

ISBN 978-0-19-848732-6  
£112.00 +VAT



### Numicon Number Bond Baseboard Overlays

Pupils match Numicon Shapes to create number bonds.

Includes grey versions so pupils move beyond matching by colour. Set of 6.

ISBN 978-0-19-848733-3  
£10.50 +VAT



### Numicon Spinners

A quiet alternative to dice. The two spinners come with two sets of overlays showing Numicon Patterns and numerals 1–5 and 6–10.

ISBN 978-0-19-848736-4  
£3.00 +VAT



### Numicon Dice

Set of 4 with numerals and Numicon Patterns. 2 × 0–5, 1 × 5–10 and 1 +/–.

ISBN 978-0-19-848735-7  
£7.00 +VAT



### Numicon Pan Balance

Use to teach equivalence and reinforce adding facts with Numicon Shapes and number rods.

ISBN 978-0-19-848738-8  
£15.00 +VAT

### Magnetic Strip

Cut up and stick to Numicon Shapes for use on a magnetic board. 30 cm × 2 cm.

ISBN 978-0-19-848726-5  
£2.50 +VAT



### Box of 80 Numicon Shapes

In colour as shown above. Each box contains ten of each Shape 1, 2, 3, 4, 5, 10 and five of each Shape 6, 7, 8, 9.

ISBN 978-0-19-848727-2  
£28.00 +VAT

Also available in grey for those who find colour a distraction.

ISBN 978-0-19-848728-9  
£28.00 +VAT

## Picture and pattern making

Picture and pattern making familiarises children with the Numicon Shapes and colours. During play children see and use the number relationships represented by Numicon Patterns.

Making patterns and sequences helps children develop all-important sequencing and prediction skills.



### Numicon Picture Baseboard Overlays

Six double-sided overlays give opportunities for matching, ordering and pattern making. Images feature animals and transport.

ISBN 978-0-19-848720-3  
£10.00 +VAT



### Numicon Baseboard

Plastic square with 10 × 10 raised circles for placing Numicon Shapes and overlays on. Also a base for building towers of number bonds or making patterns with the Numicon Pegs.

ISBN 978-0-19-848725-8  
£4.00 +VAT



### Numicon Feely Bag

This navy, cotton fabric bag is useful for many multi-sensory activities. Helpful for developing visual imagery of the Numicon Patterns.

ISBN 978-0-19-848722-7  
£5.50 +VAT



### Numicon Coloured Pegs

Pack of 80 coloured pegs that fit into the Numicon Baseboard and Shapes. Used in pattern making activities. Sold in an even assortment of red, yellow, green and blue.

ISBN 978-0-19-848723-4  
£8.00 +VAT



### Numicon Black and White Pegs

Like Numicon Coloured Pegs above. For use with pupils for whom colour may provide a distraction.

ISBN 978-0-19-848724-1  
£8.00 +VAT



### Numicon Threading Laces

Durable red bootlace for threading Numicon pegs in pattern making. Set of 3.

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### Numicon Coloured Counters

Red, yellow, green and blue Counters for use with Numicon Baseboard Laminates and pattern making. Packs of 200, sold in evenly assorted colours.

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### Numicon Baseboard Laminates

A flat laminated card version of the plastic Numicon Baseboard which can be used with Numicon Shapes, Numicon Coloured Counters and dry-wipe markers.

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£7.90 +VAT

## Help all children leave primary school with essential maths skills



Hear Numicon author Tony Wing talk about **how structured imagery makes numbers real for children**. Creating firm foundations, raising achievement and ensuring a strong grasp of number relationships.

### Let us work with you

As part of an educational charity, we're here to help. Oxford School Improvement is a free hub of expert ideas, professional development videos and resources designed to support your school's development objectives.

Source: *The Independent* online, 2 August 2011, 'Nearly a third of children will leave primary school "failing".'

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### UK Schools

Contact your local Primary Educational Consultant for advice and to purchase Numicon Resources. Please call 01536 452610 for more information or find your local rep at [www.numicon.com](http://www.numicon.com). Click on the 'book an appointment' button on the homepage.

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### About the Numicon Project

The Numicon Project is a collaborative endeavour to facilitate children's understanding and enjoyment of maths.

The Project was founded in the daily experience of intelligent children having real difficulty with maths, the frequent underestimation of the complexity of the ideas that we ask young children to face and a recognition of the importance of maths to them and to society as a whole.

We appreciate the complexity of these early number ideas and seek to foster the self-belief necessary to achieve in the face of difficulty; we are not about 'making maths easy'.

We believe that the combination of action, imagery and conversation helps children to structure their experiences, which is such a vital skill for both their mathematical and their overall development.

By watching and listening to what children do and say, we and many others are finding that our developing multi-sensory approach provides learners with the opportunity to play to their strengths, thereby releasing their potential to enjoy, understand and achieve in maths. This enjoyment in achievement is also shared by teachers and parents.

We strive to support teachers' subject knowledge and pedagogy with teaching materials, professional development and on-going feedback as we continue to develop a better understanding of how we can work together to encourage all learners in the vital early stages of their own mathematical journey.

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