Making maths real

numicon
What is Numicon?

Based on a proven concrete-pictorial-abstract approach, Numicon encourages children to explore maths using structured imagery and apparatus in order to understand and explain mathematical concepts.

Gives children confidence by allowing them to demonstrate how and why they arrived at their answer

Easily assess a child’s understanding and progress by watching and listening to what they do and say

Flexibility to use alongside your existing resources, or as a complete programme

Professional development to suit the needs of your school and staff

Find out more at www.oxfordprimary.com/numicon

What is Numicon?

Numicon emphasises three key aspects of doing mathematics: communicating mathematically, exploring relationships and generalising.

Communicating mathematically
- Being active
- Illustrating
- Talking

Exploring relationships

Generalising

It’s perfect for UK and International curricula, allowing children to:

Develop fluency by using a visual, practical base to aid conceptual understanding and recall

Reason mathematically through the use of concrete objects and spoken language to explain and justify

Become confident problem solvers by applying their learning to different real-life contexts

Find out more at www.oxfordprimary.com/numicon
How do the resources fit together?

The print resources in the Numicon core teaching programme fit together with Numicon Online and the Numicon apparatus in order to fully support your teaching.
The core programme

Teaching Resource Handbooks
Each Teaching Resource Handbook provides step-by-step guidance for introducing concepts, building understanding and exploring relationships across the maths curriculum, with a coherent teaching progression that’s supported by:

- Easy-to-follow long and medium-term planning
- Step-by-step activities with specific learning and assessment opportunities
- Assessment milestones to accurately monitor progress

Implementation Guides
A crucial part of the Numicon teaching resources, the Implementation Guide provides essential advice on how best to implement Numicon in your school, including:

- Practical guidance on how to get started with Numicon
- Key mathematical ideas to support teachers’ subject knowledge
- How to plan and assess effectively

Explorer Progress Books
An invaluable assessment resource that provides a record of achievement and the opportunity to see children’s thinking, monitor their progress and assess their understanding.

- Open activities give the opportunity to see how well children can use and apply maths learning in new contexts
- Children have the freedom to record their answers in their own way and show their thinking

Pupil Books
- Independent practice to improve fluency and understanding
- In-depth questions deepen conceptual understanding and develop mastery
- Problem solving and questions for extra challenge built in throughout

Explore More Copymasters
- Activities for home offer further opportunities for children to explore maths in an engaging way
- Short, simple instructions guide parents through each activity
- Practical links to real life help children think about how maths can be used and applied

How to get in touch:
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email
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+44 (0) 1865 313472
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+44 (0) 1536 452610
The core programme

Numicon Online

Numicon Online provides online support to introduce and implement Numicon in your school, including new Interactive Whiteboard Software.

Video support for implementation

Milestone tracking charts and statements

Editable long-term and medium-term planning documents

UK National Curriculum Correlation Charts

Assessment grids for every Numicon activity group

Numicon Interactive Whiteboard Software

A flexible teaching tool that shows Numicon models and images on the whiteboard as children work on their tables.

Video support for implementation

Milestone tracking charts and statements

Full range of numbers, symbols and Numicon apparatus available

Save your lessons for future use

Simple yet innovative, and supports hands-on learning in a clear, visual, way. A cost effective resource that encourages the wider use of maths resources.

Bett Awards judges comments

Supports teaching in all Primary year groups from Nursery to Year 6

Save your lessons for future use

Explore a selection of free resources at www.oxfordowl.co.uk

Watch the introductory video at www.oxfordowl.co.uk

UK National Curriculum Correlation Charts

Milestone tracking charts and statements

Full range of numbers, symbols and Numicon apparatus available

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UK National Curriculum Correlation Charts

Milestone tracking charts and statements

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The core programme

Apparatus
Find a wealth of apparatus to support your Numicon teaching, with packs available for both one-to-one and group work.

Pack A
to support teaching at ages 5–7

Pack B
to support teaching at ages 7–9

Pack C
to support teaching at ages 9–11

Firm Foundations
A comprehensive and varied programme of mathematics activities for children aged 4–5.

• Provides a balance of structured and explorative activities for all areas of the setting, indoors and outdoors
• Uses stories, song and rhymes and cross-curricular links as a springboard for maths learning
• Assessment Opportunities throughout guide observation of children’s developing mathematical understanding

Includes teen numbers and halving and sharing

You can also order individual items at www.oxfordprimary.com/numicon

Look inside at www.oxfordprimary.com/numicon
Additional resources to support every need

Use these supporting resources where you need them, either alongside the Numicon core programme or to supplement your existing maths resources.

Special Educational Needs and Disability

Breaking Barriers
Designed specifically for children with SEND or those experiencing difficulties with maths, comprising Teaching Folder and accompanying Apparatus Packs for one-to-one or group learning.

Nursery resources
1st Steps with Numicon in the Nursery
An Early Years Kit and Teaching Guide

Key Stage 2 catch-up
Big Ideas
12-week catch-up for Years 6 and 7, comprising Teaching Folder and accompanying Apparatus Pack.

SATs practice
Test Practice Questions
Practice materials for Key Stage 1 and 2 English National Curriculum Tests.

Intervention
Numicon Intervention Programme
Fixed-term intervention for children with gaps in their learning; includes training, diagnostic assessment and resources.

Numicon is a proven approach for teaching and learning maths that builds deep understanding and engagement. Through active investigation with problem-solving at its heart and supported by structured apparatus, children reason and communicate mathematically with confidence.

Breaking Barriers is specifically designed for teaching children who experience particular difficulties learning maths, including those with special educational needs and disabilities.

Your Teaching Handbook contains:
• A Teaching Guide providing expert advice for teachers on making the fundamental ideas of number accessible and addressing children’s underlying difficulties
• A coherent teaching progression for fundamental ideas in mathematics, with support for planning and assessment
• Clear, easy-to-follow activities with guidance on the smaller steps some children may need to take, as well as suggestions for extension
• Helpful illustrations that demonstrate how apparatus can be used to support children’s reasoning
• Ideas for putting the activities into context, helping children to apply their understanding and to think and talk mathematically
• Links to the Numicon Number, Pattern and Calculating and Geometry, Measurement and Statistics materials, so that each child can be stretched and supported appropriately

How to get in touch:
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Join the Numicon community

Follow us on social media to see how other schools are using Numicon, and share your own ideas and suggestions – we love to see the success you’re having!

Plus, find all the latest #numicon news, tips and support:

@OxfordEducationInternational

Oxford Education

Oxford Education

@OUPPrimary

International Professional Development

Meet David Lyttle, an Accredited Numicon Consultant

David Lyttle (M.A., M.Ed., Dipl. Ed.) is the Specialist Learning Support Teacher and Instructional Coach in Mathematics at the ‘IB world school’ the International School of Düsseldorf (ISD) and is also an Accredited Numicon Consultant.

David has a strong interest and deep pedagogical knowledge in mathematical difficulties, prevention and intervention, as well as ways to support gifted and talented students. He has developed a successful customised mathematics intervention programme using Numicon that caters for students from Grades 1 to 7.

With extensive experience teaching staff, modelling, observing, assessing, and assisting teachers both at ISD and beyond, David continues to lead regular successful Numicon CPD workshops at ISD, as well as providing inset training to other international schools.

Numicon helped children create regular ‘light bulb’ moments as they developed deeper connections and understandings about how number works.

The International School of Düsseldorf

Book onto International Professional Development around the world.

For Numicon events happening in your area see www.oxfordprimary.com/internationalpd

For more information, email training.international@oup.com
Your next steps

Arrange an appointment with your local Education Consultant who will discuss your needs with you and help you make the right choice for your school.

Visit www.oxfordprimary.com/contact-us