Mastery in maths for every child

Numicon provides all you need to create confident mathematicians throughout your whole school, with research-based resources and rigorous teaching support from nursery to Year 6/P7.

• Exemplifies the principles of mastery with concrete apparatus and imagery to ensure deep understanding of abstract concepts

• A flexible programme which can be tailored to your class’ needs with resources for planning, teaching, assessment and test practice

• Supported by sustained NCETM-accredited Professional Development

Assessment Support: Numicon ensures every child meets end-of-year expectations with formative assessment built in throughout. Explorer Progress Books to assess the depth of children’s understanding, and Numicon Online to track their progress through the milestones in the teaching programme.

“Children learn new concepts much quicker and they are able to ‘see’ patterns and more easily make connections.”

Claire Calderbank
Maths Subject Leader, Canon Evans C of E Primary School
Numicon
New in 2017

Pupil Books
• Provide in-depth, open questioning to challenge pupils, deepen their conceptual understanding and develop mastery
• Independent practice to improve understanding and fluency, tried and tested in the classroom
• Fully linked to the Numicon Teaching Resource Handbooks and apparatus
• Rich and meaningful open questions provide opportunities for discussion

Big Ideas
• A catch-up programme covering the key concepts children need to master by the end of KS2, with initial assessment and videos to support implementation
• A practical approach using apparatus and discussion, building confidence and enjoyment for children who are not meeting age-related expectations
• 48 cards, providing 30–40 minute easy-to-follow sessions, over a flexible 12-week period

Includes formative assessment and suggestions for continuing the learning outside the session

Rich, open questions provide opportunities for discussion
Each page and stimulating visuals link to the Teaching Resource Handbook
Problem-solving and questions for extra challenge are built in
Clear step-by-step teaching with visual prompts, using meaningful contexts

Email: primary.enquiries@oup.com | Web: www.oxfordprimary.co.uk
<table>
<thead>
<tr>
<th>Numicon</th>
<th>FS</th>
<th>Y1-6</th>
<th>P1-7</th>
<th>SEND</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURSERY</td>
<td>FOUNDATION</td>
<td>AGE 5–6</td>
<td>AGE 6–7</td>
<td></td>
</tr>
<tr>
<td>1ST STEPS WITH NUMICON IN THE NURSERY KIT</td>
<td>NUMICON FIRM FOUNDATIONS</td>
<td>Teaching Resource Handbook and Implementation Guide</td>
<td></td>
<td></td>
</tr>
<tr>
<td>APPARATUS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASSESSMENT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PUPIL BOOKS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACTIVITIES FOR HOME</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1ST STEPS WITH NUMICON AT HOME KIT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONLINE SUBSCRIPTION</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[Explorer Progress Books]
[Test Practice Questions]
[Explore More Copymasters]

Order Hotline: +44(0)1536 452610

Numicon Online subscription on www.oxfordowl.co.uk
Numicon Online subscription on www.oxfordowl.co.uk
Order form: PAGE 39

AGE 7–8  AGE 8–9  AGE 9–10  AGE 10–11

Get started with *Numicon* with our excellent-value combined resource and PD packs!

Save up to 25% on both resources and PD for:

- EYFS
- Key Stage 1
- Key Stage 2
- Whole-school

Contact your local Educational Consultant (details on page 57) to find out more.

For more details on Software for the IWB, Breaking Barriers for SEND, Investigations with *Numicon* for KS2 extension and the *Numicon* Intervention Programme, visit [www.oxfordprimary.co.uk/numicon](http://www.oxfordprimary.co.uk/numicon)

Also available

<table>
<thead>
<tr>
<th>STARTER APPARATUS PACK B</th>
<th>STARTER APPARATUS PACK C</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Three Explorer Progress Books for Number, Pattern and Calculating, one for Geometry, Measurement and Statistics)</td>
<td></td>
</tr>
<tr>
<td>Practice materials for Key Stage 1 and Key Stage 2 National Curriculum Tests</td>
<td></td>
</tr>
</tbody>
</table>

Email: primary.enquiries@oup.com  Web: [www.oxfordprimary.co.uk](http://www.oxfordprimary.co.uk)
Numicon provides step-by-step guidance for introducing concepts, building understanding and developing mastery.

Teaching Resource Handbook

- Contains step-by-step activities which emphasise problem-solving and build mastery through fluency
- Provides low-threshold, high-ceiling activities for the whole class, groups, pairs and individuals
- Accompanied by an Implementation Guide, offering guidance on how to use Numicon effectively in your school
- Supported by an easy-to-use progress tracker to ensure children are on target to meet end-of-year expectations

Clear assessment opportunities for every activity group
Learning opportunities provide details of the mathematical concepts and skills introduced in the activities
A clear outline of the content covered in the activity group and how it connects with earlier and later work
Easy-to-follow steps are adaptable to the needs of the class
Concrete materials help illustrate children’s thinking and reasoning

Fractions and Decimals activity group from Number, Pattern and Calculating 6, Teaching Resource Handbook
**Explorer Progress Book**

- An invaluable mastery assessment resource for monitoring progress and evaluating children’s understanding
- Gather evidence of children’s achievements
- Children have the freedom to record their answers in their own way, allowing you to ‘see’ their thinking
- Separate Explore More Copymasters provide opportunities for further practice at home

Each activity has space for you to offer support and encouragement to children

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

**Online subscription**

- Essential online support for successful implementation, planning and assessment
- Over 2,000 resources including assessment trackers, editable planning and teacher videos to support implementation
- Resources available from Foundation to Year 6, including video support with examples of teaching in the classroom

Numicon Online subscription on www.oxfordowl.co.uk
Numicon Professional Development

PD programmes and development modules will support you to successfully implement the Numicon approach, transforming mathematical teaching and learning throughout your school.

Your PD Journey

1. DISCOVER
- Central Workshops (1 day)
- Central Courses (2 days)
- National Conferences

2. IMPLEMENT
Design an implementation package to suit the needs of your school, with a selection of essential Core Modules, delivered centrally or via INSET, and optional Development Modules.

3. DEVELOP
Choose from a range of Development Modules (INSET or non-school closure) to meet the development needs of your school and staff.

4. REFRESH
From new staff to new curricula, our Numicon PD is designed for every step of your journey.

“It gave me key understanding of how to lead and manage implementation of Numicon.”
-Maths Leader
-London

“It was a pleasure to collaborate with like-minded educators who share a passion for an excellent resource.”
-Head of Lower Primary
-London

Professional Development from Oxford
We have a firm belief that professional development should always be:

- part of a sustained school improvement programme
- focussed on pupil outcomes
- designed by leading educational experts
- related to participant needs
- in partnership with schools
- underpinned by research and evidence

To find out more and book your place, please visit www.oxfordprimary.co.uk/numiconpd

Order Hotline: +44(0)1536 452610
**Numicon**

The Impact

Year 6 teacher, Nina Marabese, tells us why Northern Parade Junior School love using the *Numicon* approach throughout their school.

**Why did you choose to use *Numicon*?**

The school chose *Numicon* because it matches our approach to delivery of maths. It has those low-floor, high-ceiling, rich and open tasks that really develop the pupils ability to reason and solve multi-step word problems. The school uses it across all year groups and it forms the planning for all teachers within the school.

*Numicon* encourages the pupils to ask questions of the answers they get. They want to find out constantly ‘why?’ – the resources provide a fantastic concrete scaffold to enable them to do this, however the planning and the approach is where the magic truly lies and it is from this planning the children are able to use their fluency in number operations and procedures to really investigate maths.

**What impact has *Numicon* had on maths teaching and learning?**

Using *Numicon* and the approach you are encouraged to take has really opened up my teaching. Whilst we know a problem we will be working towards in the lesson, how that lesson is scaffolded isn’t planned minute by minute. I am able to get a real feel for the class and tailor-make the differentiation within the lesson. This, at first, was a scary thought, however I’ve found in doing this you are not creating those same guided groups within your class and, in fact, some children who you wouldn’t expect are having the opportunity to work at high levels in certain areas.

The maths problems within *Numicon* are excellent and relatable. The nature of the planning provides a step-by-step guide as to how they move forward. Whilst we have discrete maths lessons, I think what I like most about *Numicon* is the tasks aren’t discrete. Some may take an hour, some more and some less. The focus is on ensuring the children have mastered an objective rather than ticking off objectives lesson by lesson.

**What do pupils think of *Numicon*?**

The children love using *Numicon*. It allows them to take an abstract idea from the planning and apply it using the concrete resources. To them it just makes sense.

**What is the one unique thing about the *Numicon* approach which makes it work?**

*Numicon* doesn’t try and fit a square peg into a round hole. It doesn’t force a lesson into an hour so an objective is covered. It provides a variety of activities of differing length and sophistication, which may take a lesson or 2 or 3. It focuses on where the children need to get to and how to get there.

---

“*The planning and the approach is where the magic truly lies.*”

---

**Close the gap with *Numicon***

A study run by the National Council of Teaching and Learning has shown that the *Numicon* Intervention Programme (NIP) is the only intervention which improves pupil attainment and progress, following over 20,000 pupils from 673 schools in England in a two-year programme called “Closing the gap: test and learn.”

Find out more at [www.oxfordprimary.co.uk/numicon](http://www.oxfordprimary.co.uk/numicon)