

# STRONGER PRACTICE INSIGHTS

MATHEMATICAL DEVELOPMENT

Maths anxiety?

Interested in how to make maths fun for young children?

Looking to develop your practice?

## ABOUT

This publication serves as a comprehensive collection of materials curated from hubs nationwide, complemented by links to the EYFS framework and online resources. Our goal is to foster professional dialogue and reflection, empowering educators with valuable insights and practical tools.



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# HOW YOU MIGHT USE THIS PUBLICATION



**READ + USE LIVE LINKS  
TO EXPLORE CONTENT**



**WATCH, REFLECT AND  
DISCUSS VIDEO LINKS  
ALONE AND/OR WITH  
COLLEAGUES**



**SHARE ELECTRONICALLY  
WITH COLLEAGUES AND  
PLAN TIME FOR  
PROFESSIONAL  
DIALOGUE**



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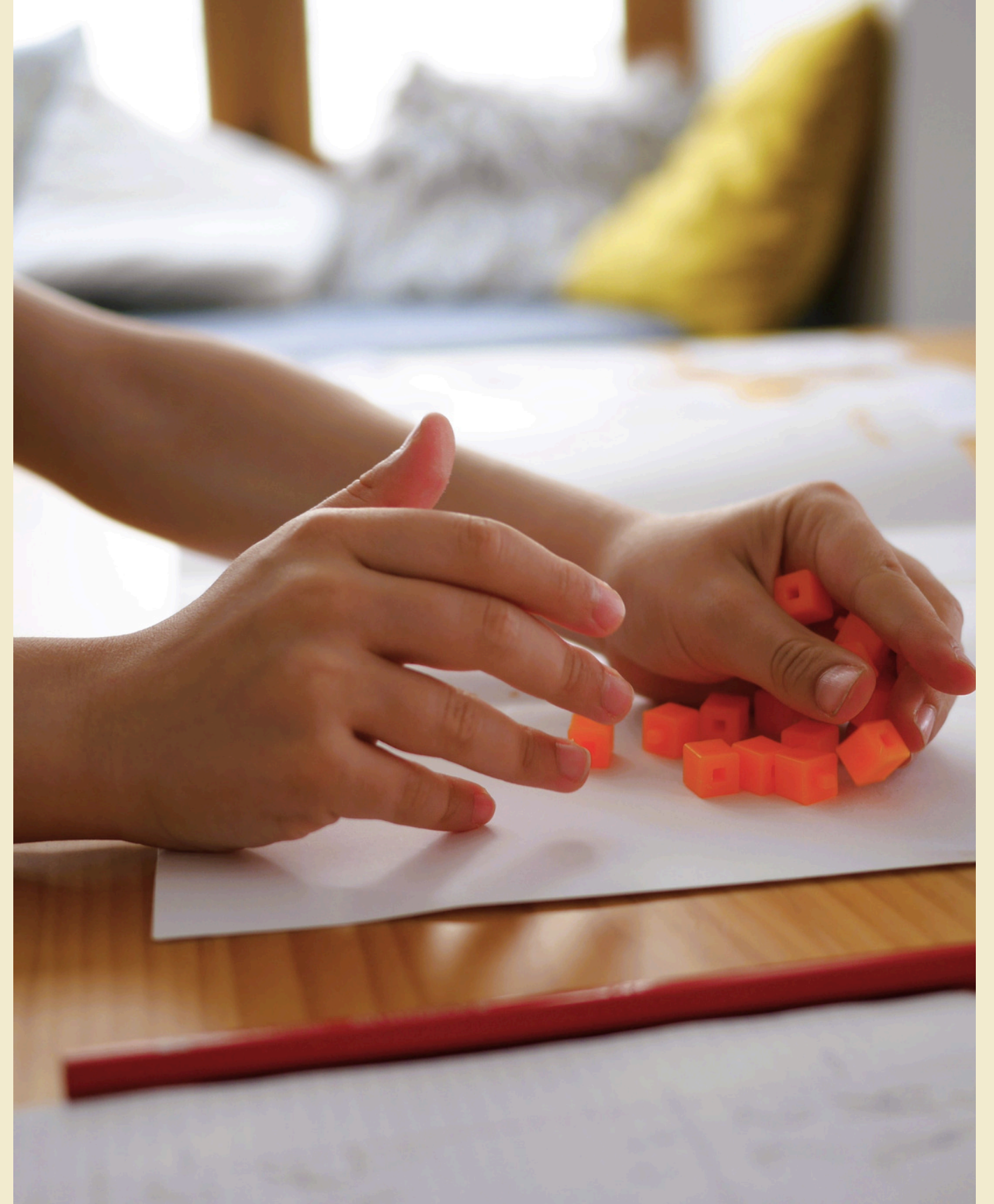


## WHAT DOES THE EYFS SAY ABOUT MATHEMATICAL DEVELOPMENT ?



Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically.

Children should be able to count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers. By providing frequent and varied opportunities to build and apply this understanding - such as using manipulatives, including small pebbles and tens frames for organising counting - children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built.





## WHAT DOES THE EYFS SAY ABOUT MATHEMATICAL DEVELOPMENT?



It is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures.

It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.



# CONTENT FROM HUBS NATIONWIDE

With thanks to:



- 1 [Mathematical Development Blog written for Practitioners Working with Children aged 2-5](#)
- 2 [Webinar: Motivating Mathematical Minds](#)
- 3 [The Simple Use of Marks to Develop Mathematical Recordings](#)
- 4 [Counting Collections](#)
- 5 [Subitising and Why Should I Care About Cardinality?](#)
- 6 [Maths Explainers](#)
- 7 [Why Playful Maths?](#)
- 8 [Unlock Powerful Mathematical Thinking in Young Children](#)



Gemma Callaghan writes about what effective mathematical development looks like in different early years settings for practitioners aged 2 – 5



[Click here to explore this resource](#)

## MATHEMATICAL DEVELOPMENT BLOG





# MOTIVATING MATHEMATICAL MINDS

Jacqui Lewis explores maths anxiety, providing reassurance that maths is everywhere. This webinar has a focus on childminders. (50 minutes)

[Click here to explore this resource](#)





# THE SIMPLE USE OF MARKS TO DEVELOP MATHEMATICAL RECORDINGS

A case study from Childhaven Nursery School



[Click here to explore this resource](#)



# COUNTING COLLECTIONS

Unbelievably Easy to Implement and  
Lots of Fun!

**Alicia Corpe**, Teacher & Designated  
Safeguarding Lead (DSL) at Goodway Nursery  
School in Birmingham, shares her reflections  
on the impact of the Counting Collections  
programme.

[Click here to explore this resource](#)





# WHAT IS SUBITISING AND WHY SHOULD I CARE ABOUT CARDINALITY?

A blog to unpick our thinking and practice to develop early maths skills with young children.

[Click here to explore this resource](#)





**WHAT DO YOU  
NOTICE? – ASKING  
THE RIGHT  
QUESTIONS FOR  
THINKING**



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**PROMOTING FLUENCY  
WITH NUMBERS AND  
SEQUENCING**



[Click here to download](#)



**TEACHING THE  
ASSOCIATION  
BETWEEN NUMBER  
AND QUANTITY**



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## WHY PLAYFUL MATHS?

Dr Helen William shares the research evidence and explores how children learn best how adults can best support children's mathematical learning.

[Click here to explore this resource](#)





## UNLOCKING POWERFUL MATHEMATICAL THINKING IN YOUNG CHILDREN

A BLOG exploring how tuning  
tuning in to children's language  
during play creates natural,  
engaging opportunities to extend  
their learning.

[Click here to explore this resource](#)





Education  
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**Discover evidence and  
resources for early years  
educators to support  
mathematical  
development**

**Guides, articles and videos  
to support evidence  
informed practice**





**Maths Champions**, delivered by National Day Nurseries Association (NDNA) is an online professional development programme which settings have 12 months access to. The programme aims to improve maths attainment of children in an early years setting by training a Maths Champion and Deputy Maths Champion (MC and DMC) in key mathematical concepts and increasing staff confidence.



**BECOME A MATHS CHAMPION**

**Improve children's outcomes by three months through becoming a Maths Champion in your setting.**

[Click here to learn more about this programme](#)



**Express your interest here:**

[www.bit.ly/HEARTeoi](http://www.bit.ly/HEARTeoi)



**HEART - Midlands Early Years Stronger Practice Hub**



# REFLECT & DISCUSS

We hope that you found this publication useful  
in enhancing your mathematical practice.

Please let us know how you have used it.  
We would love to hear from you.

**CONTACT**  
**US**

