

Number Sense

Ryders Hayes Stronger Practice Hub in partnership with Roy Broadfield, Impact in Learning.

What is the aim?

Our Number Sense Programme will help young learners to acquire the skills to develop a deep understanding of number. Through play-based counting activities, subitising and recognising patterns and relationships, children will develop a strong foundation in number that will support them to become stronger, more confident mathematicians.

The programme has been designed by drawing on high-quality evidence and the expertise of the team at Ryders Hayes Stronger Practice Hub in partnership with Roy Broadfield at Impact in Learning.

An evidence-informed approach to ensure all 3-4 year olds have firm foundations in number in preparation for Reception, and an appropriate level of understanding to apply their knowledge and make connections.

We are looking for 12 early years settings to use Number Sense and provide feedback for future development. We hope the programme will provide:

Amongst practitioners -

- Practitioner confidence will be increased and skills will be developed in teaching Number Sense. Practitioners will understand how to develop Number Sense in their everyday practice through interactions and adult-guided play

Amongst children -

- 3-4 year olds will engage in Maths learning through adult-guided play and opportunities in the environment, and apply their knowledge of these foundations in their play.

Settings that deliver the programme and complete the required feedback will receive a thank you payment of £2,000 for their involvement.

What will the programme involve?

The programme will be delivered across Autumn 2023, with a completion date of January 2024. This includes:

- Delivering specific guided-play activities and further opportunities for exploration of the same maths concepts throughout continuous provision, across a 12 week period.
- One initial briefing for setting managers, three online twilight professional development sessions (to be attended by the same two practitioners per setting) each followed by an in-setting coaching session (three in total).
- A final on-line sustainability webinar drawing upon practical applications for use throughout the year to embed Number Sense practice for 3-4 year olds, and to consider thoughtful adaptation for children across the whole setting. This should be attended by the Maths Champion and the Manager.
- One member of trained staff from each setting will be designated as Number Sense Champion.
- Taking part in feedback activities such as surveys and interviews to support the programme developer team to understand their experiences of implementing the programme
- A full privacy notice and other relevant data protection information will be made available for you to review prior to signing a memorandum of understanding.

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How will you be supported to deliver the programme?

- Provision of an electronic Number Sense toolkit resource, comprising of weekly Number Sense Overviews; supporting cards, resources and images , and language prompts for practitioners. The programme resources are designed to be able to be used with everyday objects that settings already have.
- An initial briefing for setting managers about the programme's aims
- Three online twilight professional development sessions, each taking place between 6.30 and 8pm. These will support the subject knowledge and confidence of practitioners, enabling them to teach effective number work in a fun and engaging way; to model and cascade evidence-informed practice.
- Each twilight session will be followed with coaching support within the setting by the Number Sense trainer.
- Ideas and evidence-informed guidance for continuation and development of Number Sense throughout the year to embed practice for 3-4 year olds, and to consider thoughtful adaptation for children across the whole setting.

Key dates

- **Manager briefing**—Tuesday 12th September 2023 (TBC)
- **Online CPD session 1 for two members of staff**—Thursday 14th September 2023 (6:30-8pm)
- **Modelled delivery (session 1) starts in settings**—WB: Monday 18th September 2023
- **Online CPD session 2 for two members of staff**—Thursday 16th October 2023 (6:30-8pm)
- **Modelled delivery (session 2) starts in settings**—WB: Monday 23rd October 2023
- **Online CPD session 3 for two members of staff**—Thursday 30th November 2023 (6:30-8pm)
- **Modelled delivery (session 3) starts in settings**—WB: Monday 4th December 2023
- **Sustainability webinar (for setting manager and Number Sense Champion)**—Thursday 18th January 2024

Next steps

If you have questions,
contact:

Natalie Davies
n.davies@ryders-hayes.co.uk