

Become a

**Reasoning
First** School

School Information Sheet

Mathematical Reasoning is a cornerstone of mathematical activity. Its importance to students' mathematical development and their broader life skills has been widely recognised.

Quantitative reasoning underpins other forms of mathematical reasoning and is critical for success in later mathematics learning and for navigating real-world contexts. Despite this, quantitative reasoning has received limited explicit attention in curriculum policy and classroom practice in England. By explicitly promoting quantitative reasoning in your mathematics curriculum, you are not only adding depth to the mathematical knowledge of your pupils but also improving their mathematical literacy in the longer-term.



Mathematical Reasoning in Year 2 is a whole-class research-based programme developed by professors at the University of Oxford in collaboration with teachers. This programme enriches the curriculum by promoting children's quantitative reasoning and number sense. Children learn about additive and multiplicative reasoning by thinking about relations between quantities. Number sense activities focus on the additive composition of number and the inverse relation between operations.

The programme complements all mathematics schemes including 'Teaching to Mastery', by replacing one mathematics lesson a week for 12-15 weeks. For £650 it provides:

- A whole class programme;
- Online training for the Year 2 teacher and a Teaching Assistant;
- Pre-prepared PowerPoint slides to use in lessons, saving valuable preparation time;
- Lesson plans and activities that promote classroom discussions about reasoning;
- Online mathematical games to reinforce learning that children can also access at home;
- The opportunity to generate certificates that can be printed and distributed;
- Two copies of the teacher handbook with guidance; and
- 32 workbooks (one for each child in the class).

Additional classes can be added for £250 each.

The cost of 32 child workbooks in the second year is £250.



Evidence of success:

In a previous, independent evaluation, 1365 children in 37 schools made, on average, 3 extra months progress in their mathematical learning. We have now developed an on-line version of the training course that prepares teachers to use the programme, which has recently been successfully piloted in an independent evaluation funded by the EEF.

Mathematical Reasoning in Y2 is part of the [EEF's Promising Programmes](#) and is now available to all schools.

The programme offers:

Training for Y2 teachers and Teaching Assistants (TAs)

- Two days of online professional development (PD) to be completed at a convenient time to the school and the teacher/TA avoiding travel to a training venue.
- A launch event and three live webinars that provide ongoing implementation support.
- Support from an experienced Mentor.
- Continued access to the website containing the children's games for a second year. The cost of 32 child workbooks in the second year is £250

What schools will need to do:

- Register your interest at [Home | Reasoning First](#);
- Nominate a Y2 teacher and a TA to be released from class together to complete the online PD to prepare for delivering the programme.
- Provide enough laptops/tablets with internet access for half the class to access in each lesson.

For further information please contact

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Visit our website [Home | Reasoning First](#)

You can sign up for our [newsletter here](#) where we will keep you informed about the latest developments in our work, share free resources for implementing reasoning in the classroom and keep you updated about our offers to schools.



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