

Oxford International Primary Maths

How Oxford International Primary Maths supports a Mastery approach

Oxford International Primary Maths embeds a mastery approach to learning and teaching mathematics. The essence of mastery is to develop students who have a deep conceptual understanding of mathematics and a procedural fluency through learning in a collaborative and problem-solving context. The Oxford International Primary Maths approach to mastery includes:

- A concrete, pictorial, abstract (CPA) approach to learning number and calculation including the use of manipulatives and a range of representations of the number system
- The development of mathematical thinking including developing reasoning skills
- Fluency, particularly around number facts
- Small steps approach to developing conceptual understanding
- Whole class teaching and differentiation through depth
- The development of mathematical language

The following extracts from Oxford International Primary Maths show how mastery learning is supported. There are three main components of the course: Student Books; Practice Books and Teacher's Guides. The following exemplars draw on all three components. They also draw from across the age range of learners, from Stage 1 to Stage 6.



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Concrete, pictorial, abstract (CPA) approach



Mathematical thinking



Fluency



Small steps

Accessible to all learners. Additional support using concrete objects or representations.	SJ Correspondence problems Explore Student Book 4, page 65 Image: Spider Image: Spi
Children can draw or make the animals and touch count the legs.	An example is shown below. 3 elephants + 1 spider = 20 legs
Differentiation by outcome. Teachers encourage challenge and stretch.	Write five ways to make 30 legs.
Extension to offer greater depth.	 Stretch zone I made up a pretend animal: a spiderphant (spider + elephant). A spiderphant has 12 legs. 5 spiderphants have 60 legs. Make up your own pretend animal. How many legs does it have? Write a word problem about your animal.

Whole class teaching



Mathematical language



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