

The Number Framework

There are two sections to the Number Framework. The Strategy section describes the processes students use to solve problems involving numbers - how they work things out. The Knowledge section describes the key items about number that children know and can recall quickly.

The two sections are linked, with children requiring knowledge to improve their strategies, and using strategies to develop new knowledge.

The Knowledge section is usually broken down into five areas, referred to as 'domains': Numeral Identification, Number Sequence and Order, Grouping/Place Value, Basic Facts, and Written Recording.

Description of Strategy Stages

The Strategy section of the Number Framework describes a series of stages that children progress through as they develop their understanding of a range of strategies for solving number problems.

	Stage and Behavioural Indicator
0	Emergent The student is unable to consistently count a collection of objects.
1	One to One Counting The student can count and form a set of objects up to 10 but cannot solve simple problems that involve joining and separating sets.
2	Counting From One on Materials The student solves addition and subtraction problems by physically counting from one on materials.
3	Counting from One by Imaging The student's most advanced strategy is counting from one without the use of materials to solve addition and subtraction problems.
4	Advanced Counting The student's most advanced strategy is counting-on, or counting back, to solve addition and subtraction tasks (up to 100), skip counting to solve multiplication tasks, and equal sharing by ones or repeated skip counting to solve division and fraction tasks.
5	Early Part-Whole Thinking The student can solve simple problems by splitting up and adding together the numbers in their head.
6	Advanced Additive Part-Whole The student is able to use at least two different mental strategies to solve addition or subtraction problems with multi-digit whole numbers, to derive multiplication answers from known facts, and use multiplication and division to find a fraction of a set.

7	Advanced Multiplicative Part-Whole The student is able to use at least two different mental strategies to solve addition or subtraction problems with fractions and decimals, multiplication and division problems with whole numbers, and ratio/proportion involving equivalent fractions or replication of a ratio/rate.
8	Advanced Proportional Part-Whole The student uses at least two different strategies to solve problems that involve equivalence relationships with and between fractions, ratios and proportions.