

Mastering Number: Year 2 Overview by Week

This overview contains details of the full set of materials available for Year 2 teachers, as follows:

- Details of each week of number materials. Note that these materials must be used in full in the order shown, and should be prioritised in the timetabling of Mastering Number sessions.
- Details of the spatial reasoning resource available for each half-term. This is an optional resource which can be used as suggested in each presentation, to provide practice in developing a range of spatial reasoning skills.

Autumn term

Autumn 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Spatial reasoning
Focus	Composition	Comparison	Composition	Composition	Composition	Composition	Draw it!
Set 1	Focus on the composition of 6, 7, 8 and 9 as '5 and a bit'	Compare numbers within 10 using language of comparison when comparing sets of objects and numbers Use the inequality and equals symbols in expressions and equations	Focus on odd/even parts when even numbers are composed of 2 parts, including when 2 parts are equal (doubles)	Focus on the composition of 6 Identify missing addends and complete missing symbols expressions and equations using the equals or inequality symbol	Focus on the composition of 8 Use 2-by-4 grid and the rekenrek to find all the ways that 8 can be composed Apply to expressions and equations	Focus on the composition of 10 Use 2-by-5 grid (10-frame) and the rekenrek to find all the ways that 10 can be composed Apply to expressions and equations	Hold an image in mind for a short period and recreate it Identify and describe geometric structures in images

Autumn 2	Week 7	Week 8	Week 9	Week 10	Week 11		Spatial reasoning
Focus	Composition	Composition	Composition	Composition	Counting, ordinality and cardinality		Transform it!
Set 2	Focus on the composition of odd numbers including being made of 2s and 1 more, or 1 odd part and 1 even part	Focus on the composition of 7 Use the Hungarian number pattern and the rekenrek to find all the ways that 7 can be composed Apply to expressions and equations	Focus on the composition of 9 Focus on 3-by-3 grid and the rekenrek to find all the ways that 9 can be composed Apply to expressions and equations	Focus on the composition of the numbers 11 to 19 as '10 and a bit' Apply to missing addend equations	Compare numbers within 20 Use proportional reasoning to identify the position of numbers within 20 in the linear number system, using midpoints of 5, 10 and 15		Mentally organise, arrange and transform a representation

Spring term

Spring 1	Week 12	Week 13	Week 14	Week 15	Week 16	Spatial reasoning
Focus	Number facts and arithmetic	Composition	Number facts and arithmetic	Number facts and arithmetic	Number facts and arithmetic	Visualise and mentally manipulate
Set 3	Focus on doubling numbers to 10, using the '5 and a bit' structure to double 6, 7, 8 and 9	Focus on the composition of 20 Use known facts within 10 to find missing parts of 20 when the known part is greater than 10	Apply knowledge of facts within 10 to addition and subtraction within 20 WITHIN the 10s boundary	Use knowledge of doubles to calculate near doubles See that near doubles are adjacent numbers See that the sum in a near double is odd	Develop understanding of near doubles Identify different strategies for near doubles, doubling the smaller addend and adding 1 or the larger addend and subtracting 1	Generate a mental representation Physically organise and mentally transform representations
Spring 2	Week 17	Week 18	Week 19	Week 20	Week 21	Spatial reasoning
Focus	Number facts and arithmetic	Number facts and arithmetic	Number facts and arithmetic	Number facts and arithmetic	Number facts and arithmetic	Visualise it!
Set 4	Add 3 numbers using known facts - identifying bonds of 10 and knowledge of the composition of 11 to 19 as '10 and a bit'	Add 2 numbers by 'bridging through 10'	Consolidate understanding of adding 2 numbers by 'bridging through 10' Solve missing addend problems	Subtract by 'bridging through 10'	Consolidate understanding of subtracting by 'bridging through 10'	Visualise, mentally transform and see mathematical relationships and structures in a well-structured image

Summer term

Summer 1	Week 22	Week 23	Week 24	Week 25	Week 26	Spatial reasoning
Focus	Counting, ordinality and cardinality	Number facts and arithmetic	Number facts and arithmetic	Number facts and arithmetic	Composition	Estimate it!
Set 5	Connect the order of multiples of 10 to the order of numbers within 10 Use proportional reasoning to identify the position of numbers within 100 in the linear number system	Connect missing addend problems to subtraction problems	Subtract across the 10 boundary by subtracting FROM 10 rather than bridging THROUGH 10	Practise subtracting within 20, selecting from range of strategies See that all subtractions can be solved by thinking of how a number is composed and identifying the missing part	Focus on the composition of 20 Use known facts within 10 to find missing part of 20 when the known part is less than 10	Visualise spatial relationships Identify structure in representations
Summer 2	Week 27	Week 28	Week 29	Week 30	Week 31	Spatial reasoning
Focus	Composition	Number facts and arithmetic	Number facts and arithmetic	Number facts and arithmetic	Number facts and arithmetic	Transform it!
Set 6	Use knowledge of composition to reason about expressions and equations and use the equals and inequality symbols in expressions and equations	Consolidate doubles and near doubles Introduce strategy of adding two adjacent odd numbers or two adjacent even numbers into a double	Consolidate understanding and develop fluency in transforming addition calculations involving two adjacent odd or two adjacent even numbers into a double	Develop fluency within 10 and apply this to calculations within and across the 10 boundary using a range of optional activities	A range of 6 sessions providing optional activities to provide practice and opportunities for assessment	Mentally organise, arrange and transform a representation