Mastering Number at Key Stage 2

Year 4 overview

Term 1	Term 2	Term 3
Pupils will have an opportunity to consolidate multiplication facts that have been the focus of learning in KS1 and Year 3, such as doubles and the 5 and 10 times tables. They will explore multiplicative contexts and apply these facts to them and explore relationships between factors and associated products when looking at larger numbers. The use of gesture by the teacher and pupil will support with making connections. **Pupils will:** • consider 'many as 1' - seeing that a 'unit' can represent more than 1 • Sort and classify factors and products using multiplicative number sense • recap doubles • recap × 10 and × 5 (connect to halving and doubling) • explore square numbers • use the distributive property to explore the facts in the 11 and 12 times table • use the distributive property to explore the facts in the 9 times table	Pupils will explore the core multiplication facts focusing on becoming secure with two facts per week, so that all are known and can be retrieved in a random order. As a class they will support one another to retrieve these facts and use a 'Going for Gold' approach, so that all facts are known as an oral response rather than having to be derived. They will continue to develop multiplicative number sense looking at, for example, the magnitude and/or relationship of related products. **Pupils will:** • sort and classify factors and products using multiplicative number sense • practise retrieving multiplication facts using the oral pattern • know all the core multiplication facts and those related to the 11 and 12 times table • represent the structure of a maths story.	Pupils will continue to retrieve known facts focussing on those that are less secure. They will continue to apply facts to multiplicative contexts and connect both multiplication and division equations to represent the maths story. In particular, they will connect missing factor equations to division. They will sort and classify products into multiples and not multiples of a given number knowing that for example 38 ÷ 4 will not result in a whole number quotient because 38 is not a multiple of 4. **Pupils will:** • practise retrieving multiplication facts using the oral pattern • sort and classify factors and products using multiplicative number sense • connect multiplicative contexts to writing and interpreting equations and connect multiplication equations, and multiplication equations with a missing factor, to division, knowing that the product in a multiplication equation is equivalent to the dividend in the corresponding division equation.

• use the commutative property of multiplication to reorder factors to reduce the number of facts that need to be learnt and start to explore the core multiplication facts table (CMF).		
This term will build and consolidate the Year 3 RtP listed as well as support the consolidation of the following year 4 RtP criteria: 3NF–2 Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number. 4NF–1 Recall multiplication and division facts up to 12 × 12, and recognise products in multiplication tables as multiples of the corresponding number. 4MD–3 Understand and apply the distributive property of multiplication.	This term will particularly support the teaching and consolidation of the following RtP criteria: 4NF–1 Recall multiplication and division facts up to 12 × 12, and recognise products in multiplication tables as multiples of the corresponding number. 4MD–2 Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication. 4MD–3 Understand and apply the distributive property of multiplication.	This term will particularly support the teaching and consolidation of the following RtP criteria: 4NF–1 Recall multiplication and division facts up to 12 × 12, and recognise products in multiplication tables as multiples of the corresponding number. 4MD–2 Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication.