

Maths Progression at Hayes Primary School

Year Group	Times tables	Calculation methods	Calculating with fractions
EYFS	<ul style="list-style-type: none"> Count reliably for numbers within 20. Doubling and halving to 20. 	<ul style="list-style-type: none"> Children will be using objects to understand the concepts of addition, subtraction, multiplication and division, and will start to look at what these look like in a number sentence. 	<ul style="list-style-type: none"> Children will be exposed to halves of shapes and amounts.
Y1	<ul style="list-style-type: none"> Count in steps of 2, 5 and 10. 	<ul style="list-style-type: none"> Addition, subtraction, multiplication and division will all be taught through objects, diagrams and by using numberlines. 	<ul style="list-style-type: none"> Children start to understand what fractions are and recognise $\frac{1}{4}$ and $\frac{1}{2}$.
Y2	<ul style="list-style-type: none"> Count in steps of 2, 3, 5 and 10. Recall and use multiplication facts for the 2, 5 and 10 multiplication tables. 	<ul style="list-style-type: none"> Addition and subtraction will progress to adding 2-digit numbers on a numberline by adding tens then units. Some pupils may also learn the partitioning method to add and subtract. Multiplication and division will be taught through diagrams and by using numberlines. 	<ul style="list-style-type: none"> Children continue to develop with understanding of fractions and recognise $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ of shapes and amounts.
Y3	<ul style="list-style-type: none"> Also recall and use multiplication facts for the 3, 4 and 8 multiplication tables. 	<ul style="list-style-type: none"> During year 3, children will learn how to use the column method for addition and subtraction, working with 2 and 3 digit numbers. Addition will include carrying and subtraction will include exchanging. Multiplication will be taught using the grid method and some children will learn to use the column method. Multiplication will be by a 1-digit number. The short method for division will also be introduced. 	<ul style="list-style-type: none"> Children will add and subtract fractions with the same denominator within one whole.

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Y4	<ul style="list-style-type: none"> By the end of the year, children should know all times tables up to 12x12 and related division facts. 	<ul style="list-style-type: none"> For addition and subtraction, children will continue to develop the methods learnt in year 3, but will move on to using 4 digit numbers. For multiplication, all children will learn to use column method to multiply by a 1 digit number. They will also introduce decimals into the methods. 	<ul style="list-style-type: none"> Children will continue to add and subtract fractions with the same denominator, sometimes going over one whole.
Y5	<ul style="list-style-type: none"> Children continue to practise all times tables up to 12x12 and related division facts. 	<ul style="list-style-type: none"> Addition and subtraction will be taught using the column method for numbers up to 6 digits. They will also include decimals. The column method for multiplication will be used and will progress onto multiplying by a 2 digit number. The short division method will be used to divide by a 1 digit number and the chunking method will be used to divide by a 2 digit number. 	<ul style="list-style-type: none"> Children will add and subtract fractions with different denominators. Children will multiply fractions by whole numbers.
Y6	<ul style="list-style-type: none"> Children continue to practise all times tables up to 12x12 and related division facts. 	<ul style="list-style-type: none"> In year 6, all methods are practised and secured. Children will use the column method for addition and subtraction with numbers up to 6 digits. This will include carrying for addition and exchanging for subtraction. This will also be put into other contexts such as money. Children are expected to be able to use the column method to multiply up to a 4 digit number by a 2 digit number. This also includes multiplying a decimal by a whole number. The short division method will be used to divide by a 1 digit number. Children can use 'long division' or 'chunking' to divide by a 2 digit number. 	<ul style="list-style-type: none"> Children will add and subtract fractions with different denominators. Children will multiply fractions by fractions and fractions by whole numbers. Children will divide fractions by fractions and fractions by whole numbers.

Examples of all these methods can be found in the Appendix of the Calculations Policy which is on the school website.