

	Fractions and decimals		When Vocabulary is first introduced
EYFS	Doubling and halving (Spring)	<ul style="list-style-type: none"> • solve problems, including doubling, halving and sharing • Explore the relationship between doubling and halving 	Double Describe Group Half Share
Year 1	Fractions (Spring)	<ul style="list-style-type: none"> • recognise, find and name a half as one of two equal parts of an object, shape or quantity • recognise, find and name a quarter as one of four equal parts of an object, shape or quantity 	Divide Fraction Quarter
Year 2	Fractions (Spring)	<ul style="list-style-type: none"> • recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity • write simple fractions for example, $\frac{1}{2}$ of $6 = 3$ • recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ 	Denominator Division Non-unit fraction Numerator Relationship Unit fraction Vinculum
Year 3	Fractions (Spring)	<ul style="list-style-type: none"> • recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators • recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators • count up and down in tenths • recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 • recognise and show, using diagrams, equivalent fractions with small denominators • add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] • compare and order unit fractions, and fractions with the same denominators • solve problems that involve all of the above 	

Year 4	<p>Fractions (Spring)</p> <p>Decimals (Spring)</p>	<ul style="list-style-type: none"> • add and subtract fractions with the same denominator • recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $2\frac{5}{5} + 4\frac{5}{5} = 6\frac{5}{5} = 11\frac{5}{5}$] (Y5) • recognise and show, using diagrams, families of common equivalent fractions • count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten • solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number <ul style="list-style-type: none"> • find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths • recognise and write decimal equivalents of any number of tenths or hundredths • recognise and write decimal equivalents to $1\frac{4}{10}$, $1\frac{2}{10}$, $3\frac{4}{10}$ • round decimals with one decimal place to the nearest whole number • compare numbers with the same number of decimal places up to two decimal places 	<p>Decimal fraction</p> <p>Equivalent</p> <p>Improper fraction</p> <p>Mixed numbers</p> <p>Proper fraction</p> <p>Simplify</p> <p>Tenths</p> <p>Hundredths</p>

		<ul style="list-style-type: none"> • use common factors to simplify fractions; use common multiples to express fractions in the same denomination (Y6) 	
Year 6	Fractions (Autumn)	<ul style="list-style-type: none"> • use common factors to simplify fractions; use common multiples to express fractions in the same denomination • compare and order fractions, including fractions > 1 • associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$] • recall and use equivalences between simple fractions and decimals, including in different contexts • generate and describe linear number sequences (with fractions) • add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions 	Common fraction Proportion Ratio
	Fractions (Spring)	<ul style="list-style-type: none"> • multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] • divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$] • recall and use equivalences between simple fractions and decimals, including in different contexts 	
	Percentages and statistics (Spring)	<ul style="list-style-type: none"> • recall and use equivalences between simple fractions, decimals and percentages, including in different contexts • solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison • interpret and construct pie charts and line graphs and use these to solve problems • calculate and interpret the mean as an average 	
	Proportion problems (Summer)	<ul style="list-style-type: none"> • solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts 	

		<ul style="list-style-type: none">• solve problems involving similar shapes where the scale factor is known or can be found• solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	
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