



Maths – Fractions (including Decimals) - Whole School Progression

	Nursery	Reception	Year 1	Year 2	Year 3	Year 4
White Rose Maths Small Steps			-Recognise a half of an object or shape -Find a half of an object or shape -Recognise a half of a quantity -Find a half of a quantity -Recognise a quarter of an object or shape -Find a quarter of an object or shape -Recognise a quarter of a quantity -Find a quarter of a quantity	-Introduction to parts and whole -Equal and unequal parts -Recognise a half -Find a half -Recognise a quarter -Find a quarter -Recognise a third -Find a third -Find the whole -Unit fractions -Non-unit fractions -Equivalence of a half and two quarters -Recognise three-quarters -Find three-quarters -Count in fractions up to a whole	<u>Fractions A:</u> -Understand the denominators of unit fractions -Compare and order unit fractions -Understand the numerators of non-unit fractions -Understand the whole. -Compare and order non-unit fractions -Fractions and scales -Fractions on a number line -Count in fractions on a number line -Equivalent fractions on a number line -Equivalent fractions as bar models <u>Fractions B:</u> -Add fractions -Subtract fractions -Partition the whole -Unit fractions of a set of objects -Non-unit fractions of a set of objects -Reasoning with fractions of an amount	<u>Fractions:</u> -Understand the whole -Count beyond 1 -Partition a mixed number -Number lines with mixed numbers -Compare and order mixed numbers -Understand improper fractions -Convert mixed numbers to improper fractions -Convert improper fractions to mixed numbers -Equivalent fractions on a number line -Equivalent fraction families -Add two or more fractions -Add fractions and mixed numbers -Subtract two fractions -Subtract from whole amounts -Subtract from mixed numbers <u>Decimals A:</u> -Tenths as decimals -Tenths on a place value chart -Tenths on a number line -Divide a 1-digit number by 10 -Divide a 2-digit number by 10 -Hundredths as fractions -Hundredths as decimals -Hundredths on a place value chart -Divide a 1 or 2-digit number by 100 <u>Decimals B:</u> -Make a whole with tenths -Make a whole with hundredths -Partition decimals -Flexibly partition decimals -Compare decimals -Order decimals -Round to the nearest whole number -Halves and quarters as decimals



National Curriculum Link			-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.	-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 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	-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. (<i>Taught in Y4 decimals</i>) -Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators -Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators - Recognise and show, using diagrams, equivalent fractions with small denominators -Compare and order unit fractions, and fractions with the same denominators -Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] -Solve problems that involve all of the above	<u>Fractions (including decimals)</u> -Recognise and show, using diagrams, families of common equivalent fractions -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 (Y3) -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 -Add and subtract fractions with the same denominator -recognise and write decimal equivalents of any number of tenths or hundredths -recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ -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 -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 -solve simple measure and money problems involving fractions and decimals to two decimal places
Vocabulary			equal parts, half, quarter, whole	numerator, denominator, equivalent, unit fraction, non-unit fraction, third, two-quarters, three-quarters	scale, compare, convert	decimal equivalent, decimal place, decimal point, hundredths, improper, fractions, mixed, numbers, proper fractions, round, tenths