

Subject Theme Overview

Year 5

Charlton Kings Junior School

Subject	Maths	Term	Spring
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Area	What I should already be able to do	What I will be able to do by the end of term
Investigating Angles	<ul style="list-style-type: none"> Identify acute and obtuse angles and compare and order angles up to two right angles by size 	<ul style="list-style-type: none"> Estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees (°) Identify angles at a point and one whole turn (total 360°); angles at a point on a straight line and 1/2 a turn (total 180°); other multiples of 90°
Fractions, Decimals and Percentages	<ul style="list-style-type: none"> Compare and order unit fractions, and fractions with the same denominators Recognise and show equivalent fractions with small denominators Add and subtract fractions with the same denominator within one whole Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{3}{4}$ Recognise, find and write unit and non-unit fractions of a set of objects for all small denominators. 	<ul style="list-style-type: none"> Compare and order fractions whose denominators are all multiples of the same number Identify, name and write equivalent fractions of a given fraction including tenths and hundredths Recognise and convert mixed numbers and improper fractions Add and subtract fractions with the same denominator and denominators that are multiples of the same number Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams Read and write decimal numbers as fractions Recognise the per cent symbol (%) and write a % as a fraction and as a decimal Know percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and fractions with a denominator of a multiple of 10 or 25
Measuring Space	<ul style="list-style-type: none"> Convert between units of metric measure (e.g. mm and cm; cm and m) by multiplying and dividing by 10 and 100. Use m/km; g/kg and ml / l in practical contexts. 	<ul style="list-style-type: none"> Convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) by multiplying and dividing by 10, 100 and 1000.
Calculating Space	<ul style="list-style-type: none"> Measure and calculate the perimeter of a rectilinear shape in centimetres and metres 	<ul style="list-style-type: none"> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

Number facts I must know
Addition facts Within 10 and 20 e.g. 7 + 8 = 15
Subtraction facts Within 10 and 20 e.g. 15 - 7 = 8
Multiplication facts All times tables up to 12 x 12
Division facts All times tables
Fractions / Decimals/ Percentages $\frac{1}{2} = 0.5 = 50\%$ $\frac{1}{4} = 0.25 = 25\%$ $\frac{3}{4} = 0.75 = 75\%$

Key vocabulary

Angles

Fractions

numerator (number of parts we have) $\frac{2}{5}$ denominator (total parts in whole)

unit fraction – fraction with a numerator of 1
non-unit fraction – fraction with a numerator >1
proper fraction – fraction where numerator is smaller than denominator (e.g. $\frac{2}{5}$)
improper fraction – fraction where numerator is larger than denominator (e.g. $\frac{7}{5}$)
mixed number – a number with both a whole and fraction part (e.g. $1\frac{2}{5}$)
equivalent fractions – fractions that represent the same amount of the whole

Models and images that will be used to support my understanding

Fractions / Decimals / Percentages

$\frac{3}{100}$ 0.03 3%

Equivalent Fractions

$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$

Mixed Numbers / Improper Fractions

Place Value Charts

Ones	Decimal point	Tenths	Hundredths	One-Thousandths
1s	.	$\frac{1}{10}$ s 0.1s	$\frac{1}{100}$ s 0.01s	$\frac{1}{1000}$ s 0.001s
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