Subject Theme Overview — Year 4 — Charlton Kings Junior School

Subject	Maths	Term	Spring

Area	What I should already be able to do	What I will be able to do by the end of term
Calculating: Addition and Subtraction	• Add and subtract numbers with **up to 4 digits** using written column methods. • Add and subtract amounts of money to give change, using both £ and p in practical contexts	• Add and subtract numbers involving **decimals with up to 2 decimal places** using written column methods. • Solve simple measure and money problems, using money in pounds and pence
Calculating: Multiplication and Division	• Recall and use multiplication and division facts **for the 2, 3, 4, 5, 8 and 10 multiplication tables** • Write and calculate mathematical statements for multiplication and division using known multiplication tables, including for **two-digit numbers times one-digit numbers**, using mental and progressing to formal written methods	• Recall multiplication and division facts for m**ultiplication tables up to 12 × 12** • Multiply and divide mentally, including x 0 and 1; ÷1, and multiplying three numbers efficiently • Multiply **two-digit and three-digit numbers by a one-digit number** using a formal written method
Exploring Time	• **Tell and write the time** from an analogue clock and 12-hour and 24-hour digital clocks **to the nearest minute**. • **Know** the number of seconds in a minute and the number of days in each month, year and leap year	• **Read, write and convert time** between analogue and digital 12- and 24-hour clocks • **Solve problems involving converting** from hours to minutes; minutes to seconds; years to months; weeks to days
Calculating: Fractions and Decimals	• Add and subtract fractions **with the same denominator within one whole** • Recognise, find and write unit and non-unit fractions of a set of objects for **all small denominators**. • Recognise and show **equivalent fractions with small denominators** • Compare and order unit fractions, and fractions with the same denominators	• Add and subtract fractions **with the same denominator** • Find unit and non-unit fractions of a number or quantity **using increasingly harder fractions and larger numbers** • Recognise and show **families of common equivalent fractions** • 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 $\frac{3}{4}$
Investigating Angles	• Recognise angles as a property of shape or a description of a turn • Identify whether angles are greater than or less than a right angle	• Identify acute and obtuse angles and compare and order angles up to two right angles by size

Number facts I must know

Addition facts
Within 10 and 20
e.g. 3 + 5 = 8; 6 + 4 = 10;
7 + 8 = 15; 12 + 6 = 18;
15 + 5 = 20

Subtraction facts
Within 10 and 20
e.g. 8 – 5 = 3; 10 – 6 = 4;
15 – 7 = 8; 18 – 12 = 6;
20 – 5 = 15

Multiplication facts
2, 3, 4, 5, 8 and 10 x tables
e.g. 3 x 4 = 12; 7 x 8 = 56
New: 6, 7, 9, 11 and 12 x tables

Division facts
2, 3, 4, 5, 8 and 10 x tables
e.g. 12 ÷ 4 = 3; 56 ÷ 8 = 7
New: 6, 7, 9, 11 and 12 x tables

Key calculation methods I will use

Written

Column addition: Decimals

	3	5	0
+	1	4	6
	4	9	6

Column Subtraction: Decimals

	3	$\not{5}^{4}$	$^{1}0$
-	1	4	6
	2	0	4

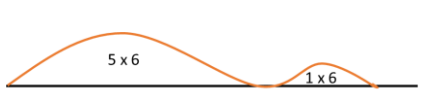
Expanded Vertical Multiplication

	7	4										
	x	3										
	1	2		(	4	x	3	=	1	2	)	
2	1	0	(	7	0	x	3	=	2	1	0	)
2	2	2										

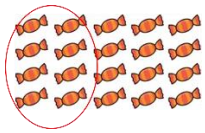
Vocabulary: exchange, exchange digit, place holder, decimal point, place value
e.g. When subtracting 1.46 from 3.5, we align the **decimal point** and use 0 as a **place holder** in the hundredths place.
When multiplying 7 tens x 3 the answer is 21 tens = 210

Models and images that will be used to support my understanding

Arrays and Number lines – Multiplication facts

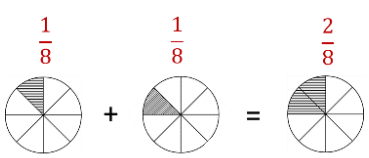


Arrays – Fractions of a number or quantity



$\frac{2}{5}$ of 20

Fractions of shape – Addition of fractions, equivalent fractions



Place value – Fractions & Decimals

Ones	Decimal point	Tenths	Hundredths
1s	.	1/10 s 0.1s	1/100 s 0.01s
	.		