

Year 6

Termly Plans Academic Year 2021 - 2022

Teach Up

Mathematics
Lessons

Manageable
Steps

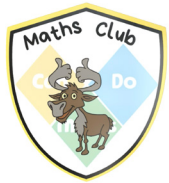
Intelligent Practice

Maths on Track
Meetings

Weekly
Suggestions

Deliberate Practice

Keep Up



Introduction

This termly plan has been carefully designed to support you to plan for successful learning of the year's maths from the National Curriculum.

The green sections provide the maths curriculum broken down into manageable steps

Manageable to teach and manageable to learn.

The blue lessons of 'Remember This' and 'Extra Problem Solving' provide flexibility within the timing of the plan for you to make decisions for your own class.

Remember It at the end of each term is a session to check the learning that has taken place during the term using the CanDoMaths Remember It for that term.

The second section on each termly plan, in blue, sets out a suggested structure for the second maths session each day - an essential element in the CanDoMaths curriculum plan.

The content on Monday and Tuesday is based on the Magic 24 from the ArithmeKit which is a separate resource that can be used to support your planning. The Magic 24 are key elements of arithmetic to secure during the year.

In your Wednesday and Thursday maths meetings it is suggested that you use deliberate practice to secure sustainable progress - based on past and present learning. You may want to use CanDoMaths Deliberate Practice and Retrieve It resources to support your planning for these sessions.

The bright pink fact column suggests a number fact to prioritise throughout the week and Friday is suggested as an opportunity to really hit a number fact hard. CanDoBonds, CanDoTables and CanDo21 are additional resources that would support your planning of these sessions.



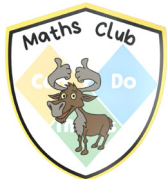
Year 6 Term 1

Term 1 W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
02/09/2021	T	KPI 1	6NPV-2,3	Number and Place Value	TDD		
	F				Represent 7-digit numbers		
06/09/2021	M	KPI 1	6NPV-2,3	Number and Place Value	Recognise the value of digits in 7-digit numbers		
	T				Read 7-digit numbers in words and write using numerals including zero as a place holder		
	W				Read 7-digit numbers in numerals and write in words, including zero as a place holder		
	T				Identify and represent 7-digit numbers on a number line		
	F				Compare numbers up to 10,000,000		
13/09/2021	M	KPI 5		Decimals	Order numbers up to 10,000,000		
	T				Round whole numbers to different degrees of accuracy		
	W				Understand and use negative numbers when working in context, such as temperature		
	T				Calculate intervals across zero		
	F				Identify the value of digits in decimal numbers		
20/09/2021	M	KPI 2	5MD-2,6NPV-	Decimals	Multiply decimals by 10		
	T				Multiply decimals by 100		
	W				Multiply decimals by 1000		
	T				Divide decimals by 10		
	F				Divide decimals by 100		
27/09/2021	M			Multiplication and Division	Multiply decimals (1d.p.) by a 1-digit number		
	T				Multiply decimals (2d.p.) by a 1-digit number		
	W				Extra Problem Solving		
	T				Find common multiples of two numbers		
	F				Find common factors of two numbers		
04/10/2021	M	KPI 3, 4	5MD-3, 4	Multiplication and Division	Identify prime numbers		
	T				Multiply a four-digit number by a two-digit number using long multiplication		
	W				Divide a three-digit number by a two-digit number using a formal written method with no remainder		
	T				Divide a three-digit number by a two-digit number using a formal written method with a whole number remainder		
	F				Divide a three-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction		
11/10/2021	M	KPI 3, 4	5MD-3, 4	Multiplication and Division	Divide a three-digit number by a two-digit number using a formal written method with a remainder rounding to two decimal places		
	T				Divide a four-digit number by a two-digit number using a formal written method with no remainder		
	W				Divide a four-digit number by a two-digit number using a formal written method with a whole number remainder		
	T				Divide a four-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction		
	F				Divide a four-digit number by a two-digit number using a formal written method with a remainder rounding to two decimal places		
18/10/2021	M	KPI 6, 7	(4G-1, 3)	Geometry: Position and Direction	Use coordinates to describe the position of a point in all four quadrants		
	T				Use coordinates to plot the position of a point in any of the four quadrants		
	W				Draw and translate simple shapes		
	T				Carry out a reflection using one of the axes as a mirror line		
	F				End of Term Assessment: Remember It 1		
Half Term							



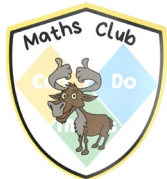
Year 6 Term 2

Term 2. W/c		KPI	D/E RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24			
	M	KPI 8, 9	6F-1, 2, 3	Fractions, Decimals and Percentages	Use common factors to simplify fractions			12x table Related facts	5.8 Add decimal numbers using efficient written or mental methods	
01/11/2021	T				Use common multiples to find equivalent fractions	5.8 Add decimal numbers using efficient written or mental methods				
	W				Compare proper fractions	Deliberate Practice: Past and Present				
	T				Compare fractions, including fractions > 1	Deliberate Practice: Past and Present				
	F				Order proper fractions	CanDo21Plus 12x7				
	M	KPI 10	5F-3	Fractions, Decimals and Percentages	Order fractions, including fractions > 1	12x table Related facts	5.11 Subtract decimal numbers using efficient written or mental methods			
08/11/2021	T				Calculate decimal equivalents of fifths, eighths and tenths		5.11 Subtract decimal numbers using efficient written or mental methods			
	W				Know simple fractions and decimal equivalences for 10%, 20%, 25%, 50%, 75%, 100%		Deliberate Practice: Past and Present			
	T				Find equivalencies between simple fractions, decimals and percentages		Deliberate Practice: Past and Present			
	F				Extra Problem Solving		CanDo21Plus 12x7			
	M	KPI 12	4G-2	Geometry: Properties of Shapes (Angles)	Find missing angles where they meet at a point		12x table Related facts		5.15 Multiply numbers using efficient written or mental methods	
15/11/2021	T				Find missing angles where they meet on a straight line				5.15 Multiply numbers using efficient written or mental methods	
	W				Find missing angles where they are vertically opposite				Deliberate Practice: Past and Present	
	T				Find unknown angles in a triangle				Deliberate Practice: Past and Present	
	F				Find unknown angles in an isosceles triangle when only one angle is known				CanDo21Plus 12x8	
	M	KPI 11, 13	6G-1	Geometry: Properties of Shapes (Angles)	Find unknown angles in a quadrilateral				12x table Related facts	5.20 Divide numbers using efficient written or mental methods
22/11/2021	T				Find unknown angles in regular polygons					5.20 Divide numbers using efficient written or mental methods
	W				Classify 2D shapes using given categories; e.g. number of sides, symmetry					Deliberate Practice: Past and Present
	T				Draw 2-D shapes given angles					Deliberate Practice: Past and Present
	F				Draw 2-D shapes given dimensions and/or angles					CanDo21Plus 12x8
	M			Geometry: Properties of Shapes	Recognise and describe 3-D shapes			12x table Related facts		5.23 Add and subtract fractions
29/11/2021	T				Classify 3-D shapes including cylinders, cones and spheres					5.23 Add and subtract fractions
	W				Draw nets of 3-D shapes					Deliberate Practice: Past and Present
	T				Construct diagrams of 3-D shapes on isometric paper					Deliberate Practice: Past and Present
	F				Know the names and relationships of the parts of a circle					CanDo21Plus 12x9
	M			Addition, Subtraction, Multiplication and Division	Extra Problem Solving	12x table Related facts				CanDoSATs 1 Place value
06/12/2021	T				Carry out calculations involving a mixture of addition and subtraction					CanDoSATs 1 Place value
	W				Carry out calculations involving a mixture of multiplication and division					Deliberate Practice: Past and Present
	T				Carry out calculations involving a mixture of multiplication and addition/subtraction					Deliberate Practice: Past and Present
	F				Carry out calculations involving a mixture of division and addition/subtraction					CanDo21Plus 12x9
	M			Addition, Subtraction, Multiplication and Division	Carry out calculations involving all four operations, including brackets		12x table Related facts			CanDoSATs 2 Round numbers
13/12/2021	T				Carry out calculations involving a mixture of addition and/or subtraction and indices					CanDoSATs 2 Round numbers
	W				Carry out calculations involving a mixture of multiplication and/or division and indices					Deliberate Practice: Past and Present
	T				Extra Problem Solving					Deliberate Practice: Past and Present
	F				End of Term Assessment: Remember It 2					CanDo21Plus 12x11
Christmas break										



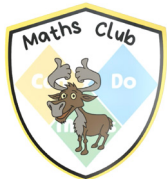
Year 6 Term 3

Term 3. W/c		KPI	D/E RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the CanDoSATs resource
04/01/2022	M	KPI 1.4	(AF-3)	Fractions: Calculating	Remember This?	1x1table Relatedfactch	22. Calculate duration of events Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x11
	T				Add proper fractions (denominators not multiples of each other) within the whole		
	W				Add proper fractions (denominators not multiples of each other) beyond the whole (mixed number answer)		
	F				Add mixed number and proper fractions (denominators not multiples of each other) fractions within whole (mixed number answer)		
10/01/2022	M	KPI 1.5	(AF-3)	Fractions: Calculating	Add mixed and proper fractions (denominators not multiples of each other) fractions beyond the whole (mixed number answer)	12x1table Relatedfactch	3. Negative numbers 4. Count forwards/backwards and sequences Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x12
	T				Add mixed numbers (same denominators), fractions within and beyond the whole (mixed number answer)		
	W				Add mixed numbers (denominators multiples of each other) fractions within the whole (mixed number answer)		
	F				Add mixed numbers (denominators multiples of each other) fractions beyond the whole (mixed number answer)		
17/01/2022	M	KPI 1.5	(AF-3)	Fractions: Calculating	Add mixed numbers (denominators not multiples of each other) fractions within the whole (mixed number answer)	12x1table Relatedfactch	5. Multiples, factors, primes and squares 6. Add and subtract numbers with up to 2 significant figures Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 11x11
	T				Extra Problem Solving		
	W				Extra Problem Solving		
	F				Extra Problem Solving		
24/01/2022	M	KPI 1.4	(AF-3)	Fractions: Calculating	Subtract proper fractions (denominators not multiples of each other) within the whole	11x1table Relatedfactch	7. Add and subtract numbers with more than 4-digits 9. Multiply and divide whole numbers mentally using 12x12 facts and place value Deliberate Practice: Past and Present Deliberate Practice: Past and Present
	T				Subtract proper fractions from mixed numbers, fractions within the whole (denominators not multiples of each other)		
	W				Subtract proper fractions from mixed numbers (same denominators), fractions across the whole		
	F				Subtract mixed number from mixed numbers (same denominators), fractions within the whole		
31/01/2022	M	KPI 1.5	(AF-3)	Fractions: Calculating	Subtract mixed number from mixed numbers (denominators multiples of each other), fractions across the whole	1x1table Relatedfactch	Address identified gaps / Practise solving routine and non-routine problems 8. Multiply and divide whole numbers and decimals up to 2d.p. by powers of 10 8. Multiply and divide whole numbers and decimals up to 2d.p. by powers of 10 Deliberate Practice: Past and Present Deliberate Practice: Past and Present
	T				Subtract mixed number from mixed numbers (denominators not multiples of each other), fractions within the whole		
	W				Subtract mixed number from mixed numbers (denominators not multiples of each other), fractions across the whole		
	F				Extra Problem Solving		
07/02/2022	M	KPI 1.6,17	(AF-3)	Fractions: Calculating	Extra Problem Solving	1x1table Relatedfactch	Address identified gaps / Practise solving routine and non-routine problems 10. Multiply and divide 2,3&4-digit numbers by 1&2-digit numbers 10. Multiply and divide 2,3&4-digit numbers by 1&2-digit numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present
	T				Multiply simple pairs of proper fractions		
	W				Divide unit fraction by whole number		
	F				Divide fraction by whole number (numerator = divisor)		
14/02/2022	M	KPI 1.6,17	(AF-3)	Fractions: Calculating	Divide fraction by whole number (numerator = multiple of divisor)	1x1table Relatedfactch	Address identified gaps / Practise solving routine and non-routine problems 11. Recognise and use equivalent fractions 12. Recognise and use equivalencies between simple fractions, decimals and % Deliberate Practice: Past and Present Deliberate Practice: Past and Present
	T				Extra Problem Solving		
	W				Extra Problem Solving		
	F				Mock SATs		
					Mock SATs		
Half Term							



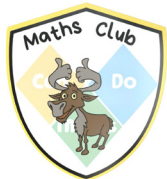
Year 6 Term 4

Term 4. W/c		KPI	DFERTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fac Check	Maths on Track: Deliberate Practice Suggested focus based on the CanDoSATs resource
28/02/2022	M	KPI 18	6 AS/MD-3	Ratio and Proportion	Remember This?	CanDo21 x 7	11. Recognise and use equivalent fractions
	T				Find 10%, 25%, 50% and 75% of an amount		11. Recognise and use equivalent fractions
	W				Find simple percentages of an amount (multiples of 10% and 5%)		12. Recognise and use equivalencies between fractions, decimals and percentages
	T				Find complex percentages of an amount (eg 17%, 28%, 63%)		12. Recognise and use equivalencies between fractions, decimals and percentages
07/03/2022	F	KPI 19	6 AS/MD-3	Ratio and Proportion	Use percentages to make comparisons	CanDo21 x 8	Address identified gaps / Practise solving routine and non-routine problems
	M				Find the value of the parts, given the whole		13. Find simple fractions and percentages of a quantity
	T				Find the value of the whole and parts, given one part		13. Find simple fractions and percentages of a quantity
	W				Use scale factors to calculate dimensions in similar shapes		26. Shape Properties
14/03/2022	T	KPI 20	5NPV-5	Measurement: Converting Units	Use scale drawings	CanDo21 x 9	26. Shape Properties
	F				Extra Problem Solving		Address identified gaps / Practise solving routine and non-routine problems
	M				Convert between metric units from the smaller unit to the larger unit		27. 3-D shapes and nets
	T				Convert between metric units from the larger unit to the smaller unit		27. 3-D shapes and nets
21/03/2022	W	KPI 21, 22	6G-1	Measurement: Area and Volume	Convert between units of time	CanDo21 x 8	28. Constructions
	T				Convert between miles and km		28. Constructions
	F				Recognise that shapes with the same areas can have different perimeters and vice versa		Address identified gaps / Practise solving routine and non-routine problems
	M				Calculate the area of a parallelogram		16. Add and Subtract Decimals
28/03/2022	T	KPI 23, 24	6 AS/MD-3,4	Algebra	Calculate the area of a triangle	CanDo21 7 x 8	16. Add and Subtract Decimals
	W				Calculate the volume of cuboids, including cubes		17. Multiply 1-digit decimal number by single digit number
	T				Extra Problem Solving		17. Multiply 1-digit decimal number by single digit number
	F				Use simple formulae expressed in words (e.g. time needed to cook a chicken: allow 20 minutes plus 40 minutes per kilogram)		Address identified gaps / Practise solving routine and non-routine problems
04/04/2022	M	KPI 23, 24	6 AS/MD-3,4	Algebra	Know the basic rules of algebraic notation	CanDo21 7 x 9	14. Add and Subtract Fractions with same denominators including Mixed Numbers
	T				Express missing number problems algebraically		14. Add and Subtract Fractions with same denominators including Mixed Numbers
	W				Find combinations of two variables		15. Add and Subtract Fractions, denominators that are multiples of same number
	T				Find pairs of numbers that satisfy an equation with two unknowns e.g. $a + b = 15$		15. Add and Subtract Fractions, denominators that are multiples of same number
04/04/2022	F	KPI 23, 24	6 AS/MD-3,4	Algebra	Generate a linear sequence from its description	CanDo21 12 x 7	Address identified gaps / Practise solving routine and non-routine problems
	M				Describe and find the next terms of a linear sequence		29. Angle facts
	T				Find a missing term in a linear sequence		29. Angle facts
	W				Describe a number pattern algebraically		31. Co-ordinates
04/04/2022	T	KPI 23, 24	6 AS/MD-3,4	Algebra	Extra Problem Solving	CanDo21 12 x 7	30. Reflections and Translations
	F				End of Term Assessment: Remember It 4		Address identified gaps / Practise solving routine and non-routine problems
Easter Break							



Year 6 Term 5

Term 5. W/c		KPI	D/E RIP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
25/04/2022	M			Statistics	Interpret line graphs		Deliberate Practice: Past and Present
	T				Construct line graphs		Deliberate Practice: Past and Present
	W				Interpret pie charts		Deliberate Practice: Past and Present
	T				Construct a pie chart by measuring angles		Deliberate Practice: Past and Present
	F				Understand the meaning of 'average' and calculate the mean of a set of discrete data		Address identified gaps / Practise solving routine and non-routine problems
02/05/2022	M			Targeted Revision	Bank Holiday		Deliberate Practice: Past and Present
	T				Interpret the mean of a set of discrete data		Deliberate Practice: Past and Present
	W				Targeted Revision		Deliberate Practice: Past and Present
	T				Targeted Revision		Deliberate Practice: Past and Present
	F				Targeted Revision		Address identified gaps / Practise solving routine and non-routine problems
09/05/2022	M			SATs	SATs		Deliberate Practice: Past and Present
	T				SATs		Deliberate Practice: Past and Present
	W				SATs		Deliberate Practice: Past and Present
	T				SATs		Deliberate Practice: Past and Present
	F				SATs		Deliberate Practice: Past and Present
16/05/2022	M			Problem Solving	Extra Problem Solving		Deliberate Practice: Past and Present
	T				Extra Problem Solving		Deliberate Practice: Past and Present
	W				Extra Problem Solving		Deliberate Practice: Past and Present
	T				Extra Problem Solving		Deliberate Practice: Past and Present
	F				Extra Problem Solving		Extra Problem solving
23/05/2022	M			Problem Solving	Extra Problem Solving		Deliberate Practice: Past and Present
	T				Extra Problem Solving		Deliberate Practice: Past and Present
	W				Extra Problem Solving		Deliberate Practice: Past and Present
	T				Extra Problem Solving		Deliberate Practice: Past and Present
	F				Extra Problem Solving		Extra Problem solving
Half Term							



Year 6 Term 6

Term 6. W/c		KPI	DfE RTP	Maths Lessons: Securing learning Moving on Up		Maths on Track: Deliberate Practice <i>Suggested focus on securing the essentials and number fact fluency</i>	
06/06/2022	M	KPI 1.5	6NPV-2,3	Place Value	Read, write and order numbers up to 10,000,000 Calculate intervals across zero		6.1 Identify the value of each digit to 3dp 6.3 Compare and order decimals Deliberate Practice: Past and Present Deliberate Practice: Past and Present Address identified gaps / Practise solving routine and non-routine problems
	T						
	W						
	F						
13/06/2022	M	KPI 2.3	5MD-3, 4	Multiplication and Division	Multiply and divide numbers up to 4 digits by a 2-digit number choosing efficient methods and interpreting the remainders		6.1 Identify the value of each digit to 3dp 6.3 Compare and order decimals Deliberate Practice: Past and Present Deliberate Practice: Past and Present Address identified gaps / Practise solving routine and non-routine problems
	T						
	W						
	F						
20/06/2022	M	KPI 8, 9, 10	6F-1, 2, 3	Fractions, Decimals and Percentages	Simplify, compare and order fractions, including fractions > 1 Know and use simple fraction, decimal and percentage equivalents		6.1 Identify the value of each digit to 3dp 6.3 Compare and order decimals Deliberate Practice: Past and Present Deliberate Practice: Past and Present Address identified gaps / Practise solving routine and non-routine problems
	T						
	W						
	F						
27/06/2022	M	KPI 14, 15, 18	4F-3	Fractions, Decimals and Percentages	Add and subtract fractions with denominators that are not multiples of each other and mixed numbers Find percentages of an amount	6.13 Compare and order fractions 6.14 Recall and use equivalence between simple fractions and decimals Deliberate Practice: Past and Present Deliberate Practice: Past and Present Address identified gaps / Practise solving routine and non-routine problems	
	T						
	W						
	F						
04/07/2022	M	KPI 6, 12	4G-1, 2	Geometry	Describe and plot positions on a 2-D grid as coordinates in the four quadrants Know and use angle properties of straight lines, at a point and shapes	6.13 Compare and order fractions 6.14 Recall and use equivalence between simple fractions and decimals Deliberate Practice: Past and Present Deliberate Practice: Past and Present Address identified gaps / Practise solving routine and non-routine problems	
	T						
	W						
	F						
11/07/2022	M	KPI 20, 21	5NPV-5, 6G-1	Measurement	Convert between different units of metric measure Calculate the area of rectangles and triangles and volumes of cuboids	6.13 Compare and order fractions 6.14 Recall and use equivalence between simple fractions and decimals Deliberate Practice: Past and Present Deliberate Practice: Past and Present Address identified gaps / Practise solving routine and non-routine problems	
	T						
	W						
	F						
18/07/2022	M	KPI 24	6AS/MD-4	Algebra	Find possible values in missing number problems involving one or two unknowns	Deliberate Practice: Past and Present Deliberate Practice: Past and Present Deliberate Practice: Past and Present Deliberate Practice: Past and Present Deliberate Practice: Past and Present	
	T						
	W						
	F						
Summer Holiday							