



Year 6

Termly Plans Academic Year 2022 - 2023

Teach Up

Mathematics
Lessons

Manageable
Steps

Intelligent Practice

Maths on Track
Meetings

Weekly
Suggestions

Deliberate Practice

Keep Up



Introduction

This termly plan has two main sections: **Maths lessons** and **Maths on Track meetings**.

The **Maths lessons** have been carefully designed to support you to plan for successful learning of the year's maths based on the National Curriculum. The maths curriculum has been broken down into manageable steps

Manageable to teach and manageable to learn.

The '**Extra Problem Solving**' lessons provide flexibility within the timing of the plan for you to make decisions to adopt and adapt the CanDo termly plans to fit your own school calendar. They are an ideal opportunity for children to apply their understanding to new situations or check prerequisite knowledge before starting new learning. The Colin and Coco Challenges within each unit can be used to resource these sessions.

End of Term Assessment: 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. There are QLA Spreadsheets provided to diagnostically analyse results and inform planning for the next term.

The **Maths on Track meetings** are an essential element in the CanDoMaths curriculum plan and the blue section provides suggestions for these 'Use It or Lose It' sessions each day:- .

- Monday and Tuesday have an arithmetic focus based on the Magic 24 from the CanDoMaths ArithmeKit.
- Wednesday and Thursday are to deliberately practise past and present learning to secure sustainable progress. CanDoMaths Deliberate Practice, Retrieve It and KeePuppI workouts provide resources for these sessions. CanDoSATs is also referenced as a key resource for these sessions.
- Friday is time to really hit a number fact hard. CanDoBonds, CanDoTables and CanDo21 are resources that would support these sessions. Of course Friday is not the only time for number facts so the **fact column** suggests prioritising number bonds/tables throughout the week.

The CanDoMaths curriculum has 24 Key Performance Indicators in each year group. The **KPI column** identifies when the learning is linked to the KPI.

The **DfE RTP column** links the CanDoMaths KPIs to the DfE Ready to Progress criteria.



Year 6 Term 1

Term 1 W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan Resources for planning included in Gold and All Access Pass		Fact Check	Maths on Track: Deliberate Practice Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It
01/09/2022	T F	KPI 1	6NPV-2, 3	Number and Place Value TDD Represent 7-digit numbers	Number and Place Value Recognise the value of digits in 7-digit numbers Read 7-digit numbers in words and write using numerals including zero as a place holder Read 7-digit numbers in numerals and write in words, including zero as a place holder Identify and represent 7-digit numbers on a number line Compare numbers up to 10,000,000		CanDo21 8x8
05/09/2022	M T W T F						
12/09/2022	M T W T F	KPI 5		Decimals Order numbers up to 10,000,000 Round whole numbers to different degrees of accuracy Understand and use negative numbers when working in context, such as temperature Calculate intervals across zero Identify the value of digits in decimal numbers	Decimals Multiply decimals by 10 Multiply decimals by 100 Multiply decimals by 1000 Divide decimals by 10 Divide decimals by 100		8xTable Related Facts 5.3 Compare and order decimal numbers 5.3 Compare and order decimal numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 8x9 8xTable Related Facts 5.3 Compare and order decimal numbers 5.3 Compare and order decimal numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 8x9
19/09/2022	M T W T F	KPI 2	5MD-2,6NPV-	Decimals Multiply decimals by 10 Multiply decimals by 100 Multiply decimals by 1000 Divide decimals by 10 Divide decimals by 100	Decimals Multiply decimals (1 d.p.) by a 1-digit number Multiply decimals (2 d.p.) by a 1-digit number Extra Problem Solving Find common multiples of two numbers Find common factors of two numbers		9xTable Related Facts 5.7 Add numbers with more than 4 digit using efficient methods 5.7 Add numbers with more than 4 digit using efficient methods Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 9x9
26/09/2022	M T W T F			Multiplication and Division Multiply decimals (1 d.p.) by a 1-digit number Multiply decimals (2 d.p.) by a 1-digit number Extra Problem Solving Find common multiples of two numbers Find common factors of two numbers	Multiplication and Division Identify prime numbers Multiply a four-digit number by a two-digit number using long multiplication Divide a three-digit number by a two-digit number using a formal written method with no remainder Divide a three-digit number by a two-digit number using a formal written method with a whole number remainder Divide a three-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction		12xTable Related Facts 5.5 Round decimal numbers 5.5 Round decimal numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x3
03/10/2022	M T W T F	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 no remainder Divide a three-digit number by a two-digit number using a formal written method with a whole number remainder Divide a three-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction	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 Divide a four-digit number by a two-digit number using a formal written method with no remainder Divide a four-digit number by a two-digit number using a formal written method with a whole number remainder Divide a four-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction Divide a four-digit number by a two-digit number using a formal written method with a remainder rounding to two decimal places		12xTable Related Facts 5.10 Subtract numbers with more than 4 digit using efficient methods 5.10 Subtract numbers with more than 4 digit using efficient methods Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x4
10/10/2022	M T W T F	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 Divide a four-digit number by a two-digit number using a formal written method with no remainder Divide a four-digit number by a two-digit number using a formal written method with a whole number remainder Divide a four-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction Divide a four-digit number by a two-digit number using a formal written method with a remainder rounding to two decimal places	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 Divide a four-digit number by a two-digit number using a formal written method with no remainder Divide a four-digit number by a two-digit number using a formal written method with a whole number remainder Divide a four-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction Divide a four-digit number by a two-digit number using a formal written method with a remainder rounding to two decimal places		12xTable Related Facts 5.1 Solve problems with negative numbers 5.1 Solve problems with negative numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x6
17/10/2022	M T W T F	KPI 6, 7	(4G-1, 3)	Geometry: Position and Direction Use coordinates to describe the position of a point in all four quadrants Use coordinates to plot the position of a point in any of the four quadrants Draw and translate simple shapes Carry out a reflection using one of the axes as a mirror line End of Term Assessment: Remember It 1	Geometry: Position and Direction Use coordinates to describe the position of a point in all four quadrants Use coordinates to plot the position of a point in any of the four quadrants Draw and translate simple shapes Carry out a reflection using one of the axes as a mirror line End of Term Assessment: Remember It 1		12xTable Related Facts 5.4 Round numbers at the nearest 10, 100, 1000, 10,000 and 100,000 5.4 Round numbers at the nearest 10, 100, 1000, 10,000 and 100,000 Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x6
Half Term							



Year 6 Term 2

Term 2. W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan Resources for planning included in Gold and All Access Pass		Maths on Track: Deliberate Practice Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It
31/10/2022	M	KPI 8,9	6F-1, 2, 3	Fractions, Decimals and Percentages Use common factors to simplify fractions Use common multiples to find equivalent fractions Compare proper fractions Compare fractions, including fractions > 1 Order proper fractions	5.8 Add decimal numbers using efficient written or mental methods 5.8 Add decimal numbers using efficient written or mental methods Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x7	
	T					
	W					
	F					
07/11/2022	M	KPI 10	5F-3	Fractions, Decimals and Percentages Order fractions, including fractions > 1 Calculate decimal equivalents of fifths, eighths and tenths Know simple fractions and decimal equivalences for 10%, 20%, 25%, 50%, 75%, 100% Find equivalencies between simple fractions, decimals and percentages Extra Problem Solving	5.11 Subtract decimal numbers using efficient written or mental methods 5.11 Subtract decimal numbers using efficient written or mental methods Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x7	
	T					
	W					
	F					
14/11/2022	M	KPI 12	4G-2	Geometry: Properties of Shapes (Angles) Find missing angles where they meet at a point Find missing angles where they meet on a straight line Find missing angles where they are vertically opposite Find unknown angles in a triangle Find unknown angles in an isosceles triangle when only one angle is known	5.15 Multiply numbers using efficient written or mental methods 5.15 Multiply numbers using efficient written or mental methods Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x8	
	T					
	W					
	F					
21/11/2022	M	KPI 11, 13	6G-1	Geometry: Properties of Shapes (Angles) Find unknown angles in a quadrilateral Find unknown angles in regular polygons Classify 2D shapes using given categories; e.g. number of sides, symmetry Draw 2-D shapes given angles Draw 2-D shapes given dimensions and/or angles	5.20 Divide numbers using efficient written or mental methods 5.20 Divide numbers using efficient written or mental methods Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x8	
	T					
	W					
	F					
28/11/2022	M			Geometry: Properties of Shapes Recognise and describe 3-D shapes Classify 3-D shapes including cylinders, cones and spheres Draw nets of 3-D shapes Construct diagrams of 3-D shapes on isometric paper Know the names and relationships of the parts of a circle	5.23 Add and subtract fractions 5.23 Add and subtract fractions Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x9	
	T					
	W					
	F					
05/12/2022	M			Addition, Subtraction, Multiplication and Division Extra Problem Solving Carry out calculations involving a mixture of addition and subtraction Carry out calculations involving a mixture of multiplication and division Carry out calculations involving a mixture of multiplication and addition/subtraction Carry out calculations involving a mixture of division and addition/subtraction	CanDoSATs 1 Place value CanDoSATs 1 Place value Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x9	
	T					
	W					
	F					
12/12/2022	M			Addition, Subtraction, Multiplication and Division Carry out calculations involving all four operations, including brackets Carry out calculations involving a mixture of addition and/or subtraction and indices Carry out calculations involving a mixture of multiplication and/or division and indices Extra Problem Solving	CanDoSATs 2 Round numbers CanDoSATs 2 Round numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x11	
	T					
	W					
	F					
Christmas break						



Year 6 Term 3

Term 3. W/c		KPI	D/E RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan Resources for planning included in Gold and All Access Pass		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the CanDoSATs resource
02/01/2023	M	KPI 14	(4F-3)	Fractions: Calculating	Extra Problem Solving	12x Table Related Fact	22. Calculate duration of events
	T				Add proper fractions (denominators not multiples of each other) within the whole		Deliberate Practice: Past and Present
	W				Add proper fractions (denominators not multiples of each other) beyond the whole (mixed number answer)		Deliberate Practice: Past and Present
	F				Add mixed number and proper fractions (denominators not multiples of each other) fractions within whole (mixed number answer)		CanDo21Plus 12x11
09/01/2023	M	KPI 15	(4F-3)	Fractions: Calculating	Add mixed and proper fractions (denominators not multiples of each other) fractions beyond the whole (mixed number answer)	12x Table Related Fact	3. Negative numbers
	T				Add mixed numbers (same denominators), fractions within and beyond the whole (mixed number answer)		4. Count forwards/backwards and sequences
	W				Add mixed numbers (denominators multiples of each other) fractions within the whole (mixed number answer)		Deliberate Practice: Past and Present
	F				Add mixed numbers (denominators multiples of each other) fractions beyond the whole (mixed number answer)		Deliberate Practice: Past and Present
16/01/2023	M	KPI 14	(4F-3)	Fractions: Calculating	Add mixed numbers (denominators not multiples of each other) fractions within the whole (mixed number answer)	11x Table Related Fact	5. Multiples, factors, primes and squares
	T				Extra Problem Solving		6. Add and subtract numbers with up to 2 significant figures
	W				Subtract proper fractions (denominators not multiples of each other) within the whole		Deliberate Practice: Past and Present
	F				Subtract proper fractions from mixed numbers, fractions within the whole (denominators not multiples of each other)		Deliberate Practice: Past and Present
23/01/2023	M	KPI 14	(4F-3)	Fractions: Calculating	Subtract proper fractions from mixed numbers, fractions across the whole (denominators not multiples of each other)	11x Table Related Fact	7. Add and subtract numbers with more than 4-digits
	T				Subtract mixed number from mixed numbers (same denominators), fractions within the whole		9. Multiply and divide whole numbers mentally using 12x12 facts and place value
	W				Subtract mixed number from mixed numbers (same denominators), fractions across the whole		Deliberate Practice: Past and Present
	F				Subtract mixed number from mixed numbers (denominators multiples of each other), fractions within the whole		Deliberate Practice: Past and Present
30/01/2023	M	KPI 15	(4F-3)	Fractions: Calculating	Subtract mixed number from mixed numbers (denominators not multiples of each other), fractions across the whole	11x Table Related Fact	Address identified gaps / Practise solving routine and non-routine problems
	T				Extra Problem Solving		8. Multiply and divide whole numbers and decimals up to 2d.p. by powers of 10
	W				Multiply simple pairs of proper fractions		8. Multiply and divide whole numbers and decimals up to 2d.p. by powers of 10
	F				Divide unit fraction by whole number		Deliberate Practice: Past and Present
06/02/2023	M	KPI 16,17	(4F-3)	Fractions: Calculating	Divide fraction by whole number (numerator = divisor)	11x Table Related Fact	Address identified gaps / Practise solving routine and non-routine problems
	T				Divide fraction by whole number (numerator not a multiple of divisor)		10. Multiply and divide 2,3&4-digit numbers by 1&2-digit numbers
	W				Extra Problem Solving		10. Multiply and divide 2,3&4-digit numbers by 1&2-digit numbers
	F				Mock SATs		Deliberate Practice: Past and Present
					Mock SATs		Deliberate Practice: Past and Present
Half Term							



Year 6 Term 4

Term 4. W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan Resources for planning included in Gold and All Access Pass		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the CanDoSATs resource
20/02/2023	M	KPI 18	6 AS/MD-3	Ratio and Proportion	Extra Problem Solving	CamDo21 6 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
	F				Find complex percentages of an amount (eg 17%, 28%, 63%)		12. Recognise and use equivalencies between fractions, decimals and percentages
27/02/2023	M	KPI 19	6 AS/MD-3	Ratio and Proportion	Use percentages to make comparisons	CamDo21 6 x 8	Address identified gaps / Practise solving routine and non-routine problems
	T				Find the value of the parts, given the whole		13. Find simple fractions and percentages of a quantity
	W				Find the value of the whole and parts, given one part		13. Find simple fractions and percentages of a quantity
	F				Use scale factors to calculate dimensions in similar shapes		26. Shape Properties
06/03/2023	M	KPI 20	5NPV-5	Measurement: Converting Units	Use scale drawings	CamDo21 6 x 9	Address identified gaps / Practise solving routine and non-routine problems
	T				Convert between metric units from the smaller unit to the larger unit		Ready to Progress Paper 3
	W				Convert between metric units from the larger unit to the smaller unit		27. 3-D shapes and nets
	F				Convert between units of time		28. Constructions
13/03/2023	M	KPI 21, 22	6G-1	Measurement: Area and Volume	Convert between miles and km	CamDo21 7 x 8	Address identified gaps / Practise solving routine and non-routine problems
	T				Recognise that shapes with the same areas can have different perimeters and vice versa		16. Add and Subtract Decimals
	W				Calculate the area of a parallelogram		16. Add and Subtract Decimals
	F				Calculate the area of a triangle		17. Multiply 1-digit decimal number by single digit number
20/03/2023	M	KPI 23, 24	6 AS/MD-3,4	Algebra	Calculate the volume of cuboids, including cubes	CamDo21 7 x 9	Address identified gaps / Practise solving routine and non-routine problems
	T				Extra Problem Solving		14. Add and Subtract Fractions with same denominators including Mixed Numbers
	W				Use simple formulae expressed in words (e.g. time needed to cook a chicken; allow 20 minutes plus 40 minutes per kilogram)		14. Add and Subtract Fractions with same denominators including Mixed Numbers
	F				Know the basic rules of algebraic notation		15. Add and Subtract Fractions, denominators that are multiples of same number
27/03/2023	M	KPI 23, 24	6 AS/MD-3,4	Algebra	Express missing number problems algebraically	CamDo21 12 x 7	Address identified gaps / Practise solving routine and non-routine problems
	T				Find combinations of two variables		29. Angle facts
	W				Find pairs of numbers that satisfy an equation with two unknowns e.g. $a + b = 15$		29. Angle facts
	F				Generate a linear sequence from its description		31. Co-ordinates
					Extra Problem Solving		30. Reflections and Translations
					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	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan Resources for planning included in Gold and All Access Pass		Fact Check	Maths on Track: Deliberate Practice
17/04/2023	M			Statistics	Interpret line graphs	12x Table Related Facts	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
24/04/2023	M			Targeted Revision	Interpret the mean of a set of discrete data	9x Table Related Facts	Deliberate Practice: Past and Present
	T				Targeted Revision		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
01/05/2023	M			Targeted Revision	Bank Holiday	8x Table Related Facts	Deliberate Practice: Past and Present
	T				Targeted Revision		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
08/05/2023	M			SATs	SATs	7x Table Related Facts	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		Extra Problem solving
15/05/2023	M			Problem Solving	Extra Problem Solving	6x Table Related Facts	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
22/05/2023	M			See Term 6	For the academic year 2022-2023 see week 1 of Term 6 for learning focus		
	T						
	W						
	T						
	F						
Half Term							



Year 6 Term 6

Term 6. W/c	KPI	D/E RTP	Maths Lessons: Securing learning Moving on Up		Fact Check
22/05/2023	M	KPI 1, 5 6NPV-2, 3	Place Value (In 2022-2023 to be taught in the last week of term 5)	Read, write and order numbers up to 10,000,000	Maths on Track: Deliberate Practice Resources for Monday and Tuesday included in All Access Pass and Use It or Lose It 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			Calculate intervals across zero	
	W				
	F				
05/06/2023	M	KPI 12, 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				
12/06/2023	M	KPI 8, 9, 10 6F-1, 2, 3	Fractions, Decimals and Percentages	Simplify, compare and order fractions, including fractions > 1	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			Know and use simple fraction, decimal and percentage equivalents	
	W				
	F				
19/06/2023	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	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			Find percentages of an amount	
	W				
	F				
26/06/2023	M	KPI 6, 12 4G-1, 2	Geometry	Describe and plot positions on a 2-D grid as coordinates in the four quadrants	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			Know and use angle properties of straight lines, at a point and shapes	
	W				
	F				
03/07/2023	M	KPI 20, 21 5NPV-5, 6G-1	Measurement	Convert between different units of metric measure	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			Calculate the area of rectangles and triangles and volumes of cuboids	
	W				
	F				
10/07/2023	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				
17/07/2023	M		Extra Problem Solving	Extra Problem Solving	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			Extra Problem Solving	
	W			Extra Problem Solving	
	F			Extra Problem Solving	
24/07/2023	M			TDD	
	T			TDD	
Summer Holiday					