



Year 6

Termly Plans Academic Year 2023 - 2024

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.

Retrieval practice – the process of recalling previously learnt material from our long-term memory – benefits pupils' learning (EEF). 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' retrieval 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.
- 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.

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Year 6 Term 1

Term 1 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 Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It
01/09/2023	F			TDD		
04/09/2023	M		Number and Place Value	Represent 7-digit numbers	8xTable Related Facts	Ready to Progress Paper 1
	T			Recognise the value of digits in 7-digit numbers		Ready to Progress Paper 2
	W			Read 7-digit numbers in words and write using numerals including zero as a place holder		Deliberate Practice: Past and Present
	T			Read 7-digit numbers in numerals and write in words, including zero as a place holder		Deliberate Practice: Past and Present/KPI Workout
	F			Identify and represent 7-digit numbers on a number line		CanDo21 8x9
11/09/2023	M	KPI 5	Decimals	Compare numbers up to 10,000,000	8xTable Related Facts	5.3 Compare and order decimal numbers
	T			Order numbers up to 10,000,000		5.3 Compare and order decimal numbers
	W			Round whole numbers to different degrees of accuracy		Deliberate Practice: Past and Present
	T			Understand and use negative numbers when working in context, such as temperature		Deliberate Practice: Past and Present/Retrievelt
	F			Calculate intervals across zero		CanDo21 8x9
18/09/2023	M	KPI 2	Decimals	Identify the value of digits in decimal numbers	8xTable Related Facts	5.7 Add numbers with more than 4 digit using efficient methods
	T			Extra Problem Solving		5.7 Add numbers with more than 4 digit using efficient methods
	W			Multiply decimals (1 d.p.) by a 1-digit number		Deliberate Practice: Past and Present
	T			Multiply decimals (2 d.p.) by a 1-digit number		Deliberate Practice: Past and Present/KPI Workout
	F			Extra Problem Solving		CanDo21 9x9
25/09/2023	M		Multiplication and Division	Find common multiples of two numbers	12xTable Related Facts	5.5 Round decimal numbers
	T			Find common factors of two numbers		5.5 Round decimal numbers
	W			Identify prime numbers		Deliberate Practice: Past and Present
	T			Multiply a four-digit number by a two-digit number using long multiplication		Deliberate Practice: Past and Present/Retrievelt
	F			Extra Problem Solving		CanDo21Plus 12x3
02/10/2023	M	KPI 3, 4	Multiplication and Division	Divide a three-digit number by a two-digit number using a formal written method with no remainder	12xTable Related Facts	5.10 Subtract numbers with more than 4 digit using efficient methods
	T			Divide a three-digit number by a two-digit number using a formal written method with a whole number remainder		5.10 Subtract numbers with more than 4 digit using efficient methods
	W			Divide a three-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction		Deliberate Practice: Past and Present
	T			Divide a three-digit number by a two-digit number using a formal written method with a remainder rounding to two decimal places		Deliberate Practice: Past and Present/KPI Workout
	F			Divide a four-digit number by a two-digit number using a formal written method with no remainder		CanDo21Plus 12x4
09/10/2023	M	KPI 3, 4	Multiplication and Division	Divide a four-digit number by a two-digit number using a formal written method with a whole number remainder	12xTable Related Facts	5.1 Solve problems with negative numbers
	T			Divide a four-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction		5.1 Solve problems with negative numbers
	W			Divide a four-digit number by a two-digit number using a formal written method with a remainder rounding to two decimal places		Deliberate Practice: Past and Present
	T			Extra Problem Solving		Deliberate Practice: Past and Present/Retrievelt
	F			Use coordinates to describe the position of a point in all four quadrants		CanDo21Plus 12x6
16/10/2023	M	KPI 6, 7	Geometry: Position and Direction	Use coordinates to plot the position of a point in any of the four quadrants	12xTable Related Facts	5.4 Round numbers of the nearest 10, 100, 1000, 10,000 and 100,000
	T			Draw and translate simple shapes		5.4 Round numbers of the nearest 10, 100, 1000, 10,000 and 100,000
	W			Carry out a reflection using one of the axes as a mirror line		Deliberate Practice: Past and Present
	T			Extra Problem Solving		Deliberate Practice: Past and Present/KPI Workout
	F			End of Term Assessment: Remember It 1		CanDo21Plus 12x6

Half Term

Multiply decimals by 10
Multiply decimals by 100
Multiply decimals by 1000
Divide decimals by 10
Divide decimals by 100

Due to the length of Term 1 being shorter for the academic year 2023/24, these manageable steps have been removed from the termly plan for maths lessons. They can be addressed in Maths on Track Meetings.



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		Fact Check	Maths on Track: Deliberate Practice Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It
30/10/2023	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
	T						5.8 Add decimal numbers using efficient written or mental methods
	W						Deliberate Practice: Past and Present
	F						Deliberate Practice: Past and Present/KPI Workout CanDo21Plus 12x7
06/11/2023	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
	T						5.11 Subtract decimal numbers using efficient written or mental methods
	W						Deliberate Practice: Past and Present
	F						Deliberate Practice: Past and Present/Retrievelt CanDo21Plus 12x7
13/11/2023	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
	T						5.15 Multiply numbers using efficient written or mental methods
	W						Deliberate Practice: Past and Present
	F						Deliberate Practice: Past and Present/KPI Workout CanDo21Plus 12x8
20/11/2023	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
	T						5.20 Divide numbers using efficient written or mental methods
	W						Deliberate Practice: Past and Present
	F						Deliberate Practice: Past and Present/Retrievelt CanDo21Plus 12x8
27/11/2023	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
	T						5.23 Add and subtract fractions
	W						Deliberate Practice: Past and Present
	F						Deliberate Practice: Past and Present/KPI Workout CanDo21Plus 12x9
04/12/2023	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
	T						CanDoSATs 1 Place value
	W						Deliberate Practice: Past and Present
	F						Deliberate Practice: Past and Present/Retrievelt CanDo21Plus 12x9
11/12/2023	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
	T						CanDoSATs 2 Round numbers
	W						Deliberate Practice: Past and Present
	F						Deliberate Practice: Past and Present/KPI Workout CanDo21Plus 12x11
Christmas break							



Year 6 Term 3

Term 3. 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
02/01/2024	M	KPI 14	(4F-3)	Fractions: Calculating	Extra Problem Solving	12x10able 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/KPI Workout
	F				Add mixed number and proper fractions (denominators not multiples of each other) fractions within whole (mixed number answer)		CanDo21Plus 12x11
08/01/2024	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)	12x10able 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/Retrievelt
15/01/2024	M	KPI 15	(4F-3)	Fractions: Calculating	Add mixed numbers (denominators not multiples of each other) fractions within the whole (mixed number answer)	12x10able Related Fact	CanDo21Plus 12x12
	T				Extra Problem Solving		5. Multiples, factors, primes and squares
	W				Subtract proper fractions (denominators not multiples of each other) within the whole		6. Add and subtract numbers with up to 2 significant figures
	F				Subtract proper fractions from mixed numbers, fractions within the whole (denominators not multiples of each other)		Deliberate Practice: Past and Present
22/01/2024	M	KPI 14	(4F-3)	Fractions: Calculating	Subtract proper fractions from mixed numbers, fractions across the whole (denominators not multiples of each other)	11x10able Related Fact	Deliberate Practice: Past and Present/KPI Workout
	T				Subtract proper fractions from mixed numbers, fractions across the whole (denominators not multiples of each other)		CanDo21Plus 11x11
	W				Subtract mixed number from mixed numbers (same denominators), fractions within the whole		7. Add and subtract numbers with more than 4-digits
	F				Subtract mixed number from mixed numbers (denominators multiples of each other), fractions within the whole		9. Multiply and divide whole numbers mentally using 12x12 facts and place value
29/01/2024	M	KPI 15	(4F-3)	Fractions: Calculating	Subtract mixed number from mixed numbers (denominators multiples of each other), fractions across the whole	Need to know	Deliberate Practice: Past and Present
	T				Subtract mixed number from mixed numbers (denominators multiples of each other), fractions across the whole		Deliberate Practice: Past and Present/Retrievelt
	W				Subtract mixed number from mixed numbers (denominators not multiples of each other), fractions within the whole		Address identified gaps / Practise solving routine and non-routine problems
	F				Extra Problem Solving		8. Multiply and divide whole numbers and decimals up to 2d.p. by powers of 10
05/02/2024	M	KPI 16,17	(4F-3)	Fractions: Calculating	Multiply simple pairs of proper fractions	Need to know	8. Multiply and divide whole numbers and decimals up to 2d.p. by powers of 10
	T				Divide unit fraction by whole number		Deliberate Practice: Past and Present
	W				Divide fraction by whole number (numerator = divisor)		Deliberate Practice: Past and Present/KPI Workout
	F				Divide fraction by whole number (numerator = multiple of divisor)		Address identified gaps / Practise solving routine and non-routine problems
					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
					Extra Problem Solving		10. Multiply and divide 2,3&4-digit numbers by 1&2-digit numbers
					Mock SATs		Deliberate Practice: Past and Present
					Mock SATs		Deliberate Practice: Past and Present/Retrievelt
					Mock SATs		Address identified gaps / Practise solving routine and non-routine problems
Half Term							



Year 6 Term 4

Term 4. 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
19/02/2024	M	KPI 18	6 AS/MD-3	Ratio and Proportion Extra Problem Solving Find 10%, 25%, 50% and 75% of an amount Find simple percentages of an amount (multiples of 10% and 5%) Find complex percentages of an amount (eg 17%, 28%, 63%) Use percentages to make comparisons		CanDo21 6 x 7	11. Recognise and use equivalent fractions
	T						11. Recognise and use equivalent fractions
	W						12. Recognise and use equivalencies between fractions, decimals and percentages
	T						12. Recognise and use equivalencies between fractions, decimals and percentages
	F						Address identified gaps / Practise solving routine and non-routine problems
26/02/2024	M	KPI 19	6 AS/MD-3	Ratio and Proportion Find the value of the parts, given the whole Find the value of the whole and parts, given one part Use scale factors to calculate dimensions in similar shapes Use scale drawings Extra Problem Solving		CanDo21 6 x 8	13. Find simple fractions and percentages of a quantity
	T						13. Find simple fractions and percentages of a quantity
	W						26. Shape Properties
	T						26. Shape Properties
	F						Address identified gaps / Practise solving routine and non-routine problems
04/03/2024	M	KPI 20	5 NPV-5	Measurement: Converting Units Convert between metric units from the smaller unit to the larger unit Convert between metric units from the larger unit to the smaller unit Convert between units of time Convert between miles and km Recognise that shapes with the same areas can have different perimeters and vice versa		CanDo21 6 x 9	Ready to Progress Paper 3
	T						27. 3-D shapes and nets
	W						28. Constructions
	T						28. Constructions
	F						Address identified gaps / Practise solving routine and non-routine problems
11/03/2024	M	KPI 21, 22	6 G-1	Measurement: Area and Volume Calculate the area of a parallelogram Calculate the area of a triangle Calculate the volume of cuboids, including cubes Extra Problem Solving Use simple formulae expressed in words (e.g. time needed to cook a chicken: allow 20 minutes plus 40 minutes per kilogram)		CanDo21 7 x 8	16. Add and Subtract Decimals
	T						16. Add and Subtract Decimals
	W						17. Multiply 1-digit decimal number by single digit number
	T						17. Multiply 1-digit decimal number by single digit number
	F						Address identified gaps / Practise solving routine and non-routine problems
18/03/2024	M	KPI 23, 24	6 AS/MD-3,4	Algebra Know the basic rules of algebraic notation Express missing number problems algebraically Find combinations of two variables Find pairs of numbers that satisfy an equation with two unknowns e.g. $a + b = 15$ Generate a linear sequence from its description		CanDo21 7 x 9	14. Add and Subtract Fractions with same denominators including Mixed Numbers
	T						14. Add and Subtract Fractions with same denominators including Mixed Numbers
	W						15. Add and Subtract Fractions, denominators that are multiples of same number
	T						15. Add and Subtract Fractions, denominators that are multiples of same number
	F						Address identified gaps / Practise solving routine and non-routine problems
25/03/2024	M	KPI 23, 24	6 AS/MD-3,4	Algebra Describe and find the next terms of a linear sequence Find a missing term in a linear sequence Describe a number pattern algebraically End of Term Assessment: Remember It 4		CanDo21 12 x 7	29. Angle facts
	T						29. Angle facts
	W						31. Co-ordinates
	T						31. Co-ordinates
	F						30. Reflections and Translations
Easter Break							



Year 6 Term 5

Term 5. 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
15/04/2024	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
22/04/2024	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			Walking talking Mock		Address identified gaps / Practise solving routine and non-routine problems
29/04/2024	M		Targeted Revision	Targeted Revision	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			Walking talking Mock		Address identified gaps / Practise solving routine and non-routine problems
06/05/2024	M		SATs	Bank Holiday	7x Table Related Facts	
	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		Extra Problem solving
13/05/2024	M		Problem Solving	SATs	6x 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
20/05/2024	M		See Term 6			
	T			For the academic year 2023-2024 see week 1 of Term 6 for learning focus		
	W					
	T					
Half Term						



Year 6 Term 6

Term 6. W/c	KPI	D/E RTP	Maths Lessons: Securing learning Moving on Up		Fact Check
20/05/2024	M	KPI 1, 5 6NPV-2, 3	Place Value (In 2023-2024 to be taught in the last week of term 5)	Read, write and order numbers up to 10,000,000	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				
03/06/2024	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				
10/06/2024	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				
17/06/2024	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				
24/06/2024	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				
01/07/2024	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				
08/07/2024	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				
15/07/2024	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	
22/07/2024	M			TDD	
	T			TDD	
Summer Holiday					