



Year 5

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.
- 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 5 Term 1

Term 1 W/c	KPI	D/E/R/T/P	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	6NPV-2, 3	Number and Place Value TDD Represent 5-digit numbers								
05/09/2022	M T W T F			Number and Place Value Recognise the value of digits in 5-digit numbers Read 5-digit numbers in words and write using numerals including zero as a place holder Read 5-digit numbers in numerals and write in words, including zero as a place holder Identify and represent 5-digit numbers on a number line Compare 5-digit numbers		CanDoTables 6x6					
	12/09/2022		M T W T F		Number and Place Value Represent numbers up to one million Recognise the value of digits in numbers up to one million Read 6-digit numbers in words and write using numerals including zero as a place holder Read 6-digit numbers in numerals and write in words, including zero as a place holder Identify and represent 6-digit numbers on a number line		Ready to Progress Paper 1 Ready to Progress Paper 2 Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDoTables 6x7				
			19/09/2022			M T W T F	Number and Place Value Compare 6-digit numbers Order numbers up to one million Round any 5-digit number to the nearest 10 000 Round any 6-digit number to the nearest 100 000 Count forwards and backwards in whole number steps including through zero		4.3 Round numbers to the nearest 10, 100 or 1000 4.3 Round numbers to the nearest 10, 100 or 1000 Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDoTables 7x7		
						26/09/2022		M T W T F	Decimals Understand and use negative numbers in context, including temperatures below 0°C Read Roman numerals to 1000 (M) Recognise years written in Roman numerals Recognise that thousandths arise from dividing a number (or object) into one thousand equal parts and dividing hundredths by ten Read a number with three decimal places		4.5 Use number facts to add 4.9 Use number facts to subtract Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDoTables 7x8
03/10/2022				M T W T F				Decimals Represent decimal numbers with up to 3 decimal places Write decimal equivalents of any number of thousandths Identify decimal numbers, with up to 3 decimal places, on a number line Position decimal numbers, with up to 3 decimal places, on a number line Compare a set of numbers written to three decimal places			4.2 Order decimal numbers and position them on a number line 4.2 Order decimal numbers and position them on a number line Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDoTables 8x6
	10/10/2022			M T W T F	Decimals Order decimal numbers with 3 decimal places Compare numbers with a mixed number of decimal places Order numbers with a mixed number of decimal places Round numbers with two decimal places to one decimal place Round numbers with two decimal places to the nearest whole number						4.4 Round decimals with 1 decimal place to the nearest whole number 4.4 Round decimals with 1 decimal place to the nearest whole number Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDoTables 8x8
			17/10/2022	M T W T F			Geometry: Properties of Shapes Identify cubes from nets Identify cuboids from nets Identify prisms from nets Identify pyramids from nets End of Term Assessment: Remember It 1				4.8 Choose appropriate written or mental methods to add 4-digit numbers 4.8 Choose appropriate written or mental methods to add 4-digit numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDoTables 12x6
				Half Term						4.12 Choose appropriate written or mental methods to subtract numbers 4.12 Choose appropriate written or mental methods to subtract numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDoTables 12x7	



Year 5 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					
31/10/2022	M	KPI 6, 7	Addition and Subtraction	Add two whole numbers choosing an efficient mental strategy	12 x table facts	4.18 Double and halve numbers				
	T			Subtract two whole numbers choosing an efficient mental strategy		4.18 Double and halve numbers				
	W			Use column addition for two numbers with more than 4 digits when regrouping is required in multiple columns		Deliberate Practice: Past and Present				
	T			Use column subtraction for two numbers with more than 4 digits when exchanging is required in multiple columns		Deliberate Practice: Past and Present				
07/11/2022	F		KPI 6, 7	Addition and Subtraction		Use column addition for numbers with 3 decimal places when regrouping is required	12 x table facts	CanDoTables 12x8		
	M					Use column addition for numbers with 1, 2 or 3 decimal places when regrouping is required		4.19 Use place value and known facts to multiply mentally		
	T					Use column subtraction for numbers with 3 decimal places when exchanging is required		4.19 Use place value and known facts to multiply mentally		
	W					Use column subtraction for numbers with 1, 2 or 3 decimal places when exchanging is required		Deliberate Practice: Past and Present		
14/11/2022	F			KPI 8		Multiplication and Division: Powers of 10		Add two decimal numbers choosing an efficient strategy	12 x table facts	Deliberate Practice: Past and Present
	M							Subtract two decimal numbers choosing an efficient strategy		CanDoTables 12x11
	T							Extra Problem Solving		4.23 Use place value and known facts to divide mentally
	W							Multiply a whole number by 10		4.23 Use place value and known facts to divide mentally
21/11/2022	T	4MD-1, 5MD-1			Multiplication and Division: Powers of 10	Multiply a whole number by 100		12 x table facts		Deliberate Practice: Past and Present
	F					Multiply a whole number by 1000				Deliberate Practice: Past and Present
	M					Multiply a whole number by 1000				CanDoTables 12x12
	T					Multiply a decimal by 10				4.21 Multiply 3-digit numbers by 1-digit numbers using efficient methods
28/11/2022	W		KPI 8		Multiplication and Division: Powers of 10	Multiply a decimal by 100	3 x table Related Facts			4.21 Multiply 3-digit numbers by 1-digit numbers using efficient methods
	F					Multiply a decimal by 1000				4.21 Multiply 3-digit numbers by 1-digit numbers using efficient methods
	M					Divide a whole number by 10				Deliberate Practice: Past and Present
	T					Divide a whole number by 100				Deliberate Practice: Past and Present
05/12/2022	W			KPI 9	Multiplication and Division: Powers of 10	Divide a whole number by 1000			3 x table Related Facts	CanDo21 3x3
	F					Divide a decimal by 10				4.24 Divide 3-digit numbers by 1-digit numbers using efficient methods
	M					Divide a decimal by 100				4.24 Divide 3-digit numbers by 1-digit numbers using efficient methods
	T					Extra Problem Solving				Deliberate Practice: Past and Present
12/12/2022	W	5MD-2			Multiplication and Division: Properties of Number	Extra Problem Solving		3 x table Related Facts		Deliberate Practice: Past and Present
	F					Find prime numbers up to 20				CanDo21 3x4
	M					Find prime and composite numbers up to 20				5.2 Compare and order numbers up to 1,000,000
	T					Express a given number as the product of prime factors				5.4 Round numbers to the nearest 10, 100, 1000, 10,000 and 100,000
12/12/2022	W		KPI 9		Multiplication and Division: Properties of Number	Know how to test if a number up to 100 is prime	3 x table Related Facts			Deliberate Practice: Past and Present
	F					Find the common factors of two numbers				CanDo21 3x6
	M					Find multiples of a given number				5.2 Compare and order numbers up to 1,000,000
	T					Find square numbers and use the notation for squared				5.4 Round numbers to the nearest 10, 100, 1000, 10,000 and 100,000
12/12/2022	W			KPI 9	Multiplication and Division: Properties of Number	Find cube numbers and use the notation for cubed			3 x table Related Facts	Deliberate Practice: Past and Present
	T					Extra Problem Solving				Deliberate Practice: Past and Present
F	End of Term Assessment: Remember It 2				CanDo21 3x7					
Christmas break										



Year 5 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		Maths on Track: Deliberate Practice Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It	
02/01/2023	M	KPI 10	5MD-3	Multiplication and Division: Written Methods	Extra Problem Solving	3x3able Rehebfacts	
	T				Multiply numbers up to 4-digits by a one-digit number using short multiplication		5.3 Compare and order decimals
	W				Multiply 2 digit by 2 digit numbers using the distributive law		Deliberate Practice: Past and Present
	F				Multiply 2 digit by 2 digit numbers using long multiplication		Deliberate Practice: Past and Present
09/01/2023	M	KPI 10	5MD-3	Multiplication and Division: Written Methods	Multiply 3 digit numbers by 2 digit numbers using long multiplication	3x3able Rehebfacts	5.3 Compare and order decimals
	T				Multiply 4 digit numbers by 2 digit numbers using long multiplication		5.5 Round decimal numbers
	W				Use efficient methods to multiply mentally		Deliberate Practice: Past and Present
	F				Use known facts and place value to multiply a whole number by a decimal		Deliberate Practice: Past and Present
16/01/2023	M	KPI 12, 13	5MD-3	Multiplication and Division: Written Methods	Multiply a one-digit number by a decimal (2dp) using a formal written method	3x3able Rehebfacts	5.3 Compare and order decimals
	T				Extra Problem Solving		5.5 Round decimal numbers
	W				Extra Problem Solving		Deliberate Practice: Past and Present
	F				Divide a four-digit number by a one-digit number using short division (divisor < thousands digit) with no remainder		Deliberate Practice: Past and Present
23/01/2023	M	KPI 11	5MD-4	Multiplication and Division: Written Methods	Divide a four-digit number by a one-digit number using short division (thousands digit = multiple of divisor, divisor < hundreds digit) with no remainder	4x4able Rehebfacts	5.12 Multiply by 100, 100 and 1000
	T				Divide a four-digit number by a one-digit number using short division (divisor < thousands digit) with a remainder		5.17 Divide by 10, 100 and 1000
	W				Divide a four-digit number by a one-digit number using short division (divisor > thousands digit) with a remainder		Deliberate Practice: Past and Present
	F				Extra Problem Solving		Deliberate Practice: Past and Present
30/01/2023	M	KPI 11	5MD-4	Geometry: Position and Direction	Extra Problem Solving	4x4able Rehebfacts	5.12 Multiply by 100, 100 and 1000
	T				Describe a reflection		5.17 Divide by 10, 100 and 1000
	W				Know what congruence means		Deliberate Practice: Past and Present
	F				Carry out a translation described using mathematical language		Deliberate Practice: Past and Present
06/02/2023	M	KPI 11	5MD-4	Geometry: Position and Direction	Carry out a reflection using a line parallel to the axes including touching the object	4x4able Rehebfacts	5.12 Multiply by 100, 100 and 1000
	T				Describe a reflection		5.17 Divide by 10, 100 and 1000
	W				Extra Problem Solving		Deliberate Practice: Past and Present
	F				Extra Problem Solving		Deliberate Practice: Past and Present
					End of Term Assessment; Remember It 3	4x4able Rehebfacts	CanDo21 4x7

Half Term



Year 5 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 Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It
20/02/2023	M	KPI 14	3F-3, 5F-2, 6F-2	Fractions, Decimals and Percentages	Extra Problem Solving	
	T				Identify equivalent fractions represented visually	
	W				Compare fractions whose denominators are multiples of the same number	
	T				Order fractions whose denominators are multiples of the same number	
	F				Represent tenths and hundredths	
27/02/2023	M	KPI 15	(5F-3)	Fractions, Decimals and Percentages	Write a number less than 1 with one decimal place as a fraction	4x7 4.6 Use place value or adjusting to add numbers mentally 4.16 Double decimal and whole numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 4x8
	T				Write a number less than 1 with two decimal places as a fraction	
	W				Write a number less than 1 with three decimal places as a fraction	
	T				Understand that per cent relates to number of parts per hundred	
	F				Write any percentage as a fraction with a denominator of 100	
06/03/2023	M	KPI 16		Fractions, Decimals and Percentages	Write any percentage as a decimal	4x7 4.16 Double decimal and whole numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 4x8 Ready to Progress Paper 3
	T				Know percentage equivalents of 1/2, 1/4, 1/5, 2/5, 4/5	
	W				Establish percentage equivalents of fractions with a denominator of multiples of 10	
	T				Establish percentage equivalents of fractions with a denominator of multiples of 25	
	F				Extra Problem Solving	
13/03/2023	M	KPI 17	5NPV-5	Measurement: Length, Mass and Capacity	Extra Problem Solving	4x9 4.9 Use place value or adjusting to subtract numbers mentally 4.21 Halve decimal and whole numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 4x9
	T				Convert kilometres to metres using decimal notation	
	W				Convert metres to kilometres using decimal notation	
	T				Convert metres to centimetres using decimal notation	
	F				Convert centimetres to metres using decimal notation	
20/03/2023	M	KPI 17	5NPV-5	Measurement: Length, Mass and Capacity	Convert between centimetres and millimetres using decimal notation	4x9 4.9 Use place value or adjusting to subtract numbers mentally 4.21 Halve decimal and whole numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 4x9
	T				Calculate the perimeter of composite rectilinear shapes where all measurements are given including mixed units	
	W				Calculate the perimeter of composite rectilinear shapes where some measurements need to be calculated	
	T				Convert between kilograms and grams using decimal notation	
	F				Convert between litres and millilitres using decimal notation	
27/03/2023	M			Measurement: Length, Mass and Capacity	Know approximate equivalences between metric and imperial units including pounds and pints	4x9 4.9 Use place value or adjusting to subtract numbers mentally 4.21 Halve decimal and whole numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 4x9
	T				Know approximate equivalences between inches and centimetres	
	W				Extra Problem Solving	
	T				Extra Problem Solving	
	F				End of Term Assessment: Remember It 4	

Easter Break



Year 5 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 Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It
17/04/2023	M	KPI 18	4F-2	Fractions: Calculating	Extra Problem Solving	
	T				Convert a mixed number into an improper fraction	
	W				Convert an improper fraction into a mixed number	
	T				Add proper fractions denominator multiples within the whole	
	F				Add proper fractions denominator multiples = mixed number answer	
24/04/2023	M	KPI 19	4F-3	Fractions: Calculating	Add mixed number and proper fraction, same denominator = mixed number answer	5.14 Multiply numbers mentally using known facts and place value 5.22 Compare and order fractions Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 6x6
	T				Add mixed number and proper fraction, same denominator = mixed number answer (beyond whole)	
	W				Add mixed number and proper fraction, denominator multiples = mixed number answer	
	T				Add mixed number and proper fraction, denominator multiples = mixed number answer (beyond whole)	
	F				Extra Problem Solving	
01/05/2023	M	KPI 20	4F-3	Fractions: Calculating	Bank Holiday	5.22 Compare and order fractions Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 6x7
	T				Subtract proper fraction from mixed number, same denominator within the whole	
	W				Subtract proper fraction from mixed number, same denominator (across whole)	
	T				Subtract proper fractions, denominator multiples within the whole	
	F				Subtract proper fractions from mixed number, denominator multiples within the whole	
08/05/2023	M	KPI 21	4F-3	Fractions: Calculating	Subtract proper fractions from mixed number, denominator multiples (across whole)	5.19 Divide numbers mentally using known facts and place value 5.24 Solve problems: Percentage and decimal equivalents Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 6x7
	T				Extra Problem Solving	
	W				Extra Problem Solving	
	T				Multiply unit fraction by a whole number	
	F				Multiply non-unit fraction by a whole number	
15/05/2023	M	KPI 21	4F-3	Fractions: Calculating	Multiply mixed number by a whole number	5.19 Divide numbers mentally using known facts and place value 5.24 Solve problems: Percentage and decimal equivalents Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 6x8
	T				Multiply mixed number by a whole number (beyond whole)	
	W				Extra Problem Solving	
	T				Extra Problem Solving	
	F				End of Term Assessment: Remember It 5	
22/05/2023	M	KPI 21	4F-3	See Term 6		Bonds of 8
	T					
	W				For the academic year 2022-2023 see week 1 of Term 6 for manageable steps	
	T					
	F					

Half Term



Year 5 Term 6

Term 6. 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
22/05/2023	M	KPI 22	5G-2	Measurement: Area and Volume (In 2022-2023 to be taught in the last week of term 5)	Extra Problem Solving	6/able	5.19 Divide numbers mentally using known facts and place value
	T				Make connections between arrays and calculating the area of rectangles		5.24 Solve problems: Percentage and decimal equivalents
	W				Calculate the area of rectangles (not squares)		Deliberate Practice: Past and Present
	T				Calculate the area of squares		Deliberate Practice: Past and Present
05/06/2023	F			Find an estimate for the area of shapes that are not rectangles	CanDo21 6x8		
	M	KPI 23	5G-1	Measurement: Area and Volume	Find an estimate for the volume of a 3D shape	6/able	5.7 Add numbers with more than 4 digits using efficient methods
	T				Estimate capacity		5.13 Multiply numbers mentally using factors or partitioning
	W				Extra Problem Solving		Deliberate Practice: Past and Present
T	Extra Problem Solving				Deliberate Practice: Past and Present		
12/06/2023	F			Extra Problem Solving	CanDo21 6x9		
	M	KPI 23	5G-1	Geometry: Properties of Shapes	Identify reflex angles	7/able	5.7 Add numbers with more than 4 digits using efficient methods
	T				know angles are measured in degrees		5.13 Multiply numbers mentally using factors or partitioning
	W				Estimate acute, obtuse and reflex angles		Deliberate Practice: Past and Present
T	Use a protractor to measure acute angles				Deliberate Practice: Past and Present		
19/06/2023	F			Use a protractor to measure obtuse angles	CanDo21 7x7		
	M	KPI 23	5G-1	Geometry: Properties of Shapes	Use a protractor to measure reflex angles	7/able	5.7 Add numbers with more than 4 digits using efficient methods
	T				Use a protractor to draw acute angles		5.13 Multiply numbers mentally using factors or partitioning
	W				Use a protractor to draw obtuse angles		Deliberate Practice: Past and Present
T	Use a protractor to draw reflex angles				Deliberate Practice: Past and Present		
26/06/2023	F			Identify and find angles at a point	CanDo21 7x8		
	M	KPI 24	5G-1	Geometry: Properties of Shapes	Identify and find angles at a point on a straight line	7/able	5.10 Subtract numbers with more than 4 digits using efficient methods
	T				Use the properties of rectangles to find missing lengths and angles		5.18 Divide numbers mentally using factors or partitioning
	W				Know the difference between a regular and an irregular polygon		Deliberate Practice: Past and Present
T	Extra Problem Solving				Deliberate Practice: Past and Present		
03/07/2023	F			Extra Problem Solving	CanDo21 7x8		
	M	KPI 24	5G-1	Measurement: Time	Convert from seconds to minutes	7/able	5.10 Subtract numbers with more than 4 digits using efficient methods
	T				Convert from minutes to hours		5.18 Divide numbers mentally using factors or partitioning
	W				Convert from hours to days		Deliberate Practice: Past and Present
T	Convert from days to weeks				Deliberate Practice: Past and Present		
10/07/2023	F			Extra Problem Solving	CanDo21 7x9		
	M	KPI 24	5G-1	Statistics	Read and interpret information given in a timetable	7/able	5.10 Subtract numbers with more than 4 digits using efficient methods
	T				Read and interpret information given in a table		5.18 Divide numbers mentally using factors or partitioning
	W				Read and interpret information given in a line graph		Deliberate Practice: Past and Present
T	Extra Problem Solving				Deliberate Practice: Past and Present		
17/07/2023	F			End of Term Assessment: Remember It 6	CanDo21 7x9		
	M	KPI 24	5G-1	Extra Problem Solving	Extra Problem Solving	7/able	Ready to Progress Paper 4
	T				Extra Problem Solving		5.18 Divide numbers mentally using factors or partitioning
	W				Extra Problem Solving		Deliberate Practice: Past and Present
T	Extra Problem Solving				Deliberate Practice: Past and Present		
24/07/2023	F			Extra Problem Solving	CanDo21 7x12		
	M			TDD			
	T			TDD			

Summer Holiday