



## Year 5

# Termly Plans Academic Year 2023 - 2024

Teach Up

Mathematics Lessons

Manageable Steps

Intelligent Practice

Maths on Track Meetings

> Weekly Suggestions

Deliberate Practice

Compare Com



#### 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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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	F			TDD		
	M			Represent 5-digit numbers	50	Ready to Progress Paper 1
	T		Number and Place	Recognise the value of digits in 5-digit numbers	fact	Ready to Progress Paper 2
04/09/2023	w		Value	Read 5-digit numbers in words and write using numerals including zero as a place holder	bles	Deliberate Practice: Past and Present
	ΤN		value	Read 5-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 5-digit numbers on a number line	~	CanDoTables 6x7
	w 🚡	က		Compare 5-digit numbers	S	4.3 Round numbers to the nearest 10, 100 or 1000
	T	6NPV-2,	Number and Place	Represent numbers up to one million	fact	4.3 Round numbers to the nearest 10, 100 or 1000
11/09/2023	w	Ē	Value	Recognise the value of digits in numbers up to one million	<del>p</del> <del>p</del> <del>p</del>	Deliberate Practice: Past and Present
	T	49	value	Read 6-digit numbers in words and write using numerals including zero as a place holder	7×to	Deliberate Practice: Past and Present/Retrievelt
	F			Read 6-digit numbers in numerals and write in words, including zero as a place holder		CanDoTables 7x7
	M			Identify and represent 6-digit numbers on a number line	S	4.5 Use number facts to add
	T 👯		Number and Place Value	Compare 6-digit numbers	fact	4.9 Use number facts to subtract
18/09/2023	w 🚡			Order numbers up to one million	<del>p</del> <del>p</del> <del>p</del>	Deliberate Practice: Past and Present
	T			Round any 5-digit number to the nearest 10 000	×	Deliberate Practice: Past and Present/KPI Workout
	F			Round any 6-digit number to the nearest 100 000	_	CanDoTables 7x8
	M		Decimals	Count forwards and backwards in whole number steps including through zero	10	4.2 Order decimal numbers and posiiton them on a number line
	T ,			Understand and use negative numbers in context, including temperatures below 0°C	fact	4.2 Order decimal numbers and posiiton them on a number line
25/09/2023	w 🗒			Extra Problem Solving	<u>0</u>	Deliberate Practice: Past and Present
	T			Recognise that thousandths arise from dividing a number (or object) into one thousand equal parts and dividing hundredths by ten	×	Deliberate Practice: Past and Present/Retrievelt
	F			Read a number with three decimal places	w	CanDoTables 8x6
	M		Decimals	Represent decimal numbers with up to 3 decimal places	10	4.4 Round decimals with 1 decimal place to the nearest whole number
	T			Write decimal equivalents of any number of thousandths	act	4.4 Round decimals with 1 decimal place to the nearest whole number
02/10/2023	w			Identify decimal numbers, with up to 3 decimal places, on a number line	De t	Deliberate Practice: Past and Present
	T			Position decimal numbers, with up to 3 decimal places, on a number line	×	Deliberate Practice: Past and Present/KPI Workout
	F			Compare a set of numbers written to three decimal places	w	CanDoTables 8x8
	М			Order decimal numbers with 3 decimal places	S	4.8 Choose appropriate written or mental methods to add 4-digit numbers
	T	$\overline{z}$		Compare numbers with a mixed number of decimal places	fact	4.8 Choose appropriate written or mental methods to add 4-digit numbers
09/10/2023	w 🖁	-VAN9	Decimals	Order numbers with a mixed number of decimal places	apple 1	Deliberate Practice: Past and Present
	T F	49		Round numbers with two decimal places to one decimal place	2× tc	Deliberate Practice: Past and Present/Retrievelt
				Round numbers with two decimal places to the nearest whole number		CanDoTables 12x6
	M T W		Geometry: Properties of Shapes	Extra Problem Solving	s <sub>+</sub>	4.12 Choose appropriate written or mental methods to subtract numbers
				Identify cubes from nets	fact	4.12 Choose appropriate written or mental methods to subtract numbers
16/10/2023				Identify cuboids from nets	able	Deliberate Practice: Past and Present
				Extra Problem Solving	2×tc	Deliberate Practice: Past and Present/KPI Workout
	F			End of Term Assessment: Remember It 1	=	CanDoTables 12x7
	•			Half Term		

Read Roman numerals to 1000 (M)

Recognise years written in Roman numerals

Identify prisms from nets

Identify pyramids from nets

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.



Term 2. W/o	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
	М			Add two whole numbers choosing an efficient mental strategy		4.18 Double and halve numbers
	T		Addition and Subtraction	Subtract two whole numbers choosing an efficient mental strategy	fact	4.18 Double and halve numbers
30/10/2023	W			Use column addition for two numbers with more than 4 digits when regrouping is required in multiple columns	able	Deliberate Practice: Past and Present
	T / 9			Use column subtraction for two numbers with more than 4 digits when exchanging is required in multiple columns	12 x t	Deliberate Practice: Past and Present/KPI Workout
				Use column addition for numbers with 3 decimal places when regrouping is required		CanDoTables 12x8
	W			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		Addition and	Use column subtraction for numbers with 3 decimal places when exchanging is required	facts	4.19 Use place value and known facts to multiply mentally
06/11/2023	W		Subtraction	Use column subtraction for numbers with 1, 2 or 3 decimal places when exchanging is required	appe	Deliberate Practice: Past and Present
	T		Subiraction	Add two decimal numbers choosing an efficient strategy	2×tc	Deliberate Practice: Past and Present/Retrievelt
	F			Subtract two decimal numbers choosing an efficient strategy		CanDoTables 12x11
	M			Extra Problem Solving		4.23 Use place value and known facts to divide mentally
•	T		Multiplication and Division: Powers of 10	Multiply a whole number by 10	facts	4.23 Use place value and known facts to divide mentally
13/11/2023	w			Multiply a whole number by 100	app	Deliberate Practice: Past and Present
	T			Multiply a whole number by 1000	2×tc	Deliberate Practice: Past and Present/KPI Workout
	F			Multiply a decimal by 10		CanDoTables 12x12
	M	_	Multiplication and Division: Powers of 10	Multiply a decimal by 100	cts	4.21 Multiply 3-digit numbers by 1-digit numbers using efficient methods
	T	5MD-		Multiply a decimal by 1000	edfo	4.21 Multiply 3-digit numbers by 1-digit numbers using efficient methods
20/11/2023	T F	4MD-1, 5		Divide a whole number by 10	Relat	Deliberate Practice: Past and Present
				Divide a whole number by 100	age	Deliberate Practice: Past and Present/Retrievelt
		₹		Divide a whole number by 1000	3xIc	CanDo21 3x3
	M		Multiplication and Division: Powers of 10	Divide a decimal by 10	cts	4.24 Divide 3-digit numbers by 1-digit numbers using efficient methods
	T			Divide a decimal by 100	edfo	4.24 Divide 3-digit numbers by 1-digit numbers using efficient methods
27/11/2023	w			Extra Problem Solving	Relat	Deliberate Practice: Past and Present
	T			Extra Problem Solving	a p	Deliberate Practice: Past and Present/KPI Workout
	F			Extra Problem Solving	3xIc	CanDo21 3x4
	М		Multiplication and Division: Properties of Number	Find prime numbers up to 20	cts	5.2 Compare and order numbers up to 1,000,000
	T			Find prime and composite numbers up to 20	edfo	5.4 Round numbers to the nearest 10, 100, 1000, 10,000 and 100,000
04/12/2023	w			Express a given number as the product of prime factors	Relat	Deliberate Practice: Past and Present
	T			Know how to test if a number up to 100 is prime	ppe	Deliberate Practice: Past and Present/Retrievelt
•	F <u>△</u>	D-2		Find the common factors of two numbers	33.70	CanDo21 3x6
	M ₽	5MD-2		Find multiples of a given number	cts	5.2 Compare and order numbers up to 1,000,000
	Т			Find square numbers and use the notation for squared	adfa	5.4 Round numbers to the nearest 10, 100, 1000, 10,000 and 100,000
11/12/2023	w			Find cube numbers and use the notation for cubed	Relate	Deliberate Practice: Past and Present
	Т			Extra Problem Solvina	e e	Deliberate Practice: Past and Present/KPI Workout
	F			End of Term Assessment: Remember It 2	3xIa	CanDo21 3x7
				Christmas break		



Term 3. W/c	KPI DÆ 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
02/01/2024 W T F	KPI 10 5MD-3	Multiplication and Division: Written Methods	Extra Problem Solving  Multiply numbers up to 4-digits by a one-digit number using short multiplication  Multiply 2 digit by 2 digit numbers using the distributive law  Multiply 2 digit by 2 digit numbers using long multiplication	able Relate	i.3. Compare and order decimals Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21 3x8
08/01/2024 W T F		Multiplication and Division: Written Methods	Multiply 3 digit numbers by 2 digit numbers using long multiplication  Multiply 4 digit numbers by 2 digit numbers using long multiplication  Use efficient methods to multiply mentally  Use known facts and place value to multiply a whole number by a decimal  Multiply a one-digit number by a decimal (1 dp) using a formal written method	able Related Fa	5.3 Compare and order decimals 5.5 Round decimal numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo21 3x9
15/01/2024 W T F	KPI 12, 13	Multiplication and Division: Written Methods	Multiply a one-digit number by a decimal (2dp) using a formal written method  Extra Problem Solving  Extra Problem Solving  Divide a four-digit number by a one-digit number using short division (divisor < thousands digit) with no remainder  Divide a four-digit number by a one-digit number using short division (thousands digit = multiple of divisor, divisor < hundreds digit) with no remainder	able Related Fa	i.3 Compare and order decimals 5.5 Round decimal numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21 4x4
22/01/2024 W T F	KPI11 5MP-4	Multiplication and Division: Written Methods	Divide a four-digit number by a one-digit number using short division (divisor > thousands digit) with no remainder  Divide a four-digit number by a one-digit number using short division (divisor < thousands digit) with a remainder  Divide a four-digit number by a one-digit number using short division (divisor > thousands digit) with a remainder  Extra Problem Solving  Extra Problem Solving	able Related Fo	i.12 Multiply by 100, 100 and 1000 i.17 Divide by 10, 100 and 1000 Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt
29/01/2024 W T F		Geometry: Position and Direction	Extra Problem Solving	able Related Fo	5.12 Multiply by 100, 100 and 1000 5.17 Divide by 10, 100 and 1000 Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout
05/02/2024 W T F		Geometry: Position and Direction	Carry out a reflection using a line parallel to the axes and crossing the object	able Related Facts	5.12 Multiply by 100, 100 and 1000 5.17 Divide by 10, 100 and 1000 Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo21 4x7



Term 4. W/	c KPI	DÆ RTP		Maths Lessons: Intelligent Practice Lesson by Lesson Plan Resources for planning included in Gold and All Access Pass	Fact Check	Access Pass and Use It or Less It
	M	<u>-</u>	Fractions Decimals and	Extra Problem Solving	Facts	4.6 Use place value or adjusting to add numbers mentally
10/00/0004	<u> </u>	Ý,		Identify equivalent fractions represented visually	ated	4.16 Double decimal and whole numbers
19/02/2024	W	ני ע	Percentages	Compare fractions whose denominators are multiples of the same number	e Re	Deliberate Practice: Past and Present
		5	_	Order fractions whose denominators are multiples of the same number	Table	Deliberate Practice: Past and Present/KPI Workout
	F	')		Represent tenths and hundredths	4	CanDo21 4x7
	M			Write a number less than 1 with one decimal place as a fraction	Fact	4.6 Use place value or adjusting to add numbers mentally
	T 2	3	Fractions, Decimals and	Write a number less than 1 with two decimal places as a fraction	pate	4.16 Double decimal and whole numbers
26/02/2024	W	5F-	Fractions, Decimals and Percentages	Write a number less than 1 with three decimal places as a fraction	Rek	Deliberate Practice: Past and Present
	T		rereemages	Understand that per cent relates to number of parts per hundred	able	Deliberate Practice: Past and Present/Retrievelt
	F			Write any percentage as a fraction with a denominator of 100	4×I	CanDo21 4x8
	M			Write any percentage as a decimal	acts	Ready to Progress Paper 3
	T 💊		Percentages	Know percentage equivalents of 1/2, 1/4, 1/5, 2/5, 4/5	tedF	4.16 Double decimal and whole numbers
04/03/2024	W =			Establish percentage equivalents of fractions with a denominator of multiples of 10	Rela	Deliberate Practice: Past and Present
	T			Establish percentage equivalents of fractions with a denominator of multiples of 25	apple	Deliberate Practice: Past and Present/KPI Workout
	F			Extra Problem Solving	4xIc	CanDo21 4x8
	M		Measurement: Length, Mass and Capacity	Extra Problem Solving	acts	4.9 Use place value or adjusting to subtract numbers mentally
	T			Convert kilometres to metres using decimal notation	edFc	4.21 Halve decimal and whole numbers
11/03/2024	W			Convert metres to kilometres using decimal notation	Relat	Deliberate Practice: Past and Present
	T			Convert metres to centimetres using decimal notation	eg	Deliberate Practice: Past and Present/Retrievelt
	F C	5NPV-5		Convert centimetres to metres using decimal notation	4xIc	CanDo21 4x9
	M ⊕	P.		Convert between centimetres and millimetres using decimal notation	cts	4.9 Use place value or adjusting to subtract numbers mentally
	T	ц)	**	Calculate the perimeter of composite rectilinear shapes where all measurements are given including mixed units	adFc	4.21 Halve decimal and whole numbers
18/03/2024	w		Measurement: Length,	Calculate the perimeter of composite rectilinear shapes where some measurements need to be calculated	Relate	Deliberate Practice: Past and Present
	T		Mass and Capacity	Convert between kilograms and grams using decimal notation	ble	Deliberate Practice: Past and Present/KPI Workout
	F			Convert between littes and millilities using decimal notation	4xIa	CanDo21 4x9
	М			Know approximate equivalences between metric and imperial units including pounds and pints	cts	4.9 Use place value or adjusting to subtract numbers mentally
	T		Measurement: Length, Mass and Capacity	Know approximate equivalences between inches and centimetres	gdfa	4.21 Halve decimal and whole numbers
25/03/2024	w			Extra Problem Solvina	elate	Deliberate Practice: Past and Present
	T			End of Term Assessment: Remember It 4	ble R	Deliberate Practice: Past and Present/Retrievelt
	F				4xTai	
				Easter Break		



Term 5. W/c	OFE 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
15/04/2024 W T	KPI 18 4F-2	Fractions: Calculating	Extra Problem Solving  Convert a mixed number into an improper fraction  Convert an improper fraction into a mixed number  Add proper fractions denominator multiples within the whole	5.14 Multiply numbers mentally using known facts and place value 5.22 Compare and order fractions Deliberate Practice: Past and Present/KPI Workout
22/04/2024 W T	KPI 19 4F-3	Fractions: Calculating	Add proper fractions denominator multiples = mixed number answer  Add mixed number and proper fraction, same denominator = mixed number answer  Add mixed number and proper fraction, same denominator = mixed number answer (beyond whole)  Add mixed numbeer and proper fraction, denominator multiples = mixed number answer  Add mixed number and proper fraction, denominator multiples = mixed number answer (beyond whole)	CanDo21 6x6  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/Retrievelt
29/04/2024 W T	KPI 20 4F-3		Extra Problem Solving  Subtract proper fraction from mixed number, same denominator within the whole  Subtract proper fraction from mixed number, same denominator (across whole)  Subtract proper fractions, denominator multiples within the whole  Subtract proper fractions from mixed number, denominator multiples within the whole  Subtract proper fractions from mixed number, denominator multiples within the whole	CanDo21 6x6  5.14 Multiply numbers mentally using known facts and place value  5.22 Compare and order fractions  Deliberate Practice: Past and Present/KPI Workout  CanDo21 6x7
06/05/2024 W T		Fractions: Calculating	Bank Holiday  Extra Problem Solving  Extra Problem Solving  Multiply unit fraction by a whole number	5.24 Solve problems: Percentage and decimal equivalents Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo21 677
13/05/2024 W T	KPIZ	Fractions: Calculating	Multiply non-unit fraction by a whole number  Multiply mixed number by a whole number  Multiply mixed number by a whole number (beyond whole)  Extra Problem Solving  Extra Problem Solving  End of Term Assessment: Remember It 5	5.19 Divide numbers mentally using known facts and place value 5.24 Solve problems: Percentage and decimal equivalents Deliberate Practice: Past and Present/KPI Workout CanDo21 6x8
20/05/2024 M T F		See Term 6	For the academic year 2023-2024 see week 1 of Term 6 for manageable steps  Half Term	Bonds of 8



Term 6. W/	c KPI	DÆ 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
20/05/2024	T F		Measurement: Area and Volume (In 2023-2024 to be taught in the last week of term 5)	Extra Problem Solving  Make connections between arrays and calculating the area of rectangles  Calculate the area of rectangles (not squares)  Calculate the area of squares  Find an estimate for the area of shapes that are not rectangles	able RelatedFo	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/KPI Workout CanDo21 6x8
03/06/2024	M T W T		Measurement: Area and Volume	Find an estimate for the volume of a 3D shape  Estimate capacity  Extra Problem Solving  Extra Problem Solving  Extra Problem Solving	able Relatedfa	5.7 Add numbers with more than 4 digits using efficient methods 5.13 Multiply numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo21 6x9
10/06/2024	M T W T		Geometry: Properties of Shapes	Identify reflex angles know angles are measured in degrees Estimate acute, obtuse and reflex angles Use a protractor to measure acute angles Use a protractor to measure obtuse angles	able Relatedfa	5.7 Add numbers with more than 4 digits using efficient methods 5.13 Multiply numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21
17/06/2024	M 💆	5G-1	Geometry: Properties of Shapes	Use a protractor to measure reflex angles Use a protractor to draw acute angles Use a protractor to draw obtuse angles Use a protractor to draw reflex angles Use a protractor to draw reflex angles Identify and find angles at a point	able Related for	5.7 Add numbers with more than 4 digits using efficient methods 5.13 Multiply numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo21 7x8
24/06/2024	M T		Geometry: Properties of Shapes	Identify and find angles at a point on a straight line  Use the properties of rectangles to find missing lengths and angles  Know the difference between a regular and an irregular polygon  Extra Problem Solving  Extra Problem Solving	able Related Facts	5.10 Subtract numbers with more than 4 digits using efficient methods 5.18 Divide numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo
	W T W T W		Measurement: Time	Convert from seconds to minutes  Convert from minutes to hours  Convert from hours to days  Convert from days to weeks  Extra Problem Solving	able Related Fa	5.10 Subtract numbers with more than 4 digits using efficient methods 5.18 Divide numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo
08/07/2024	M T W T		Statistics	Read and interpret information given in a timetable Read and interpret information given in a table Read and interpret information given in a line graph  Extra Problem Solving End of Term Assessment: Remember It 6	7xTable RelatedFacts	5.10 Subtract numbers with more than 4 digits using efficient methods 5.18 Divide numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo
15/07/2024	M T		Extra Problem Solving	Extra Problem Solving	Table Related Fa	Ready to Progress Paper 4  5.18 Divide numbers mentally using factors or partitioning  Deliberate Practice: Past and Present  Deliberate Practice: Past and Present  CanDo21 7x12
22/07/2024	M T			TDD TDD Summer Holiday		