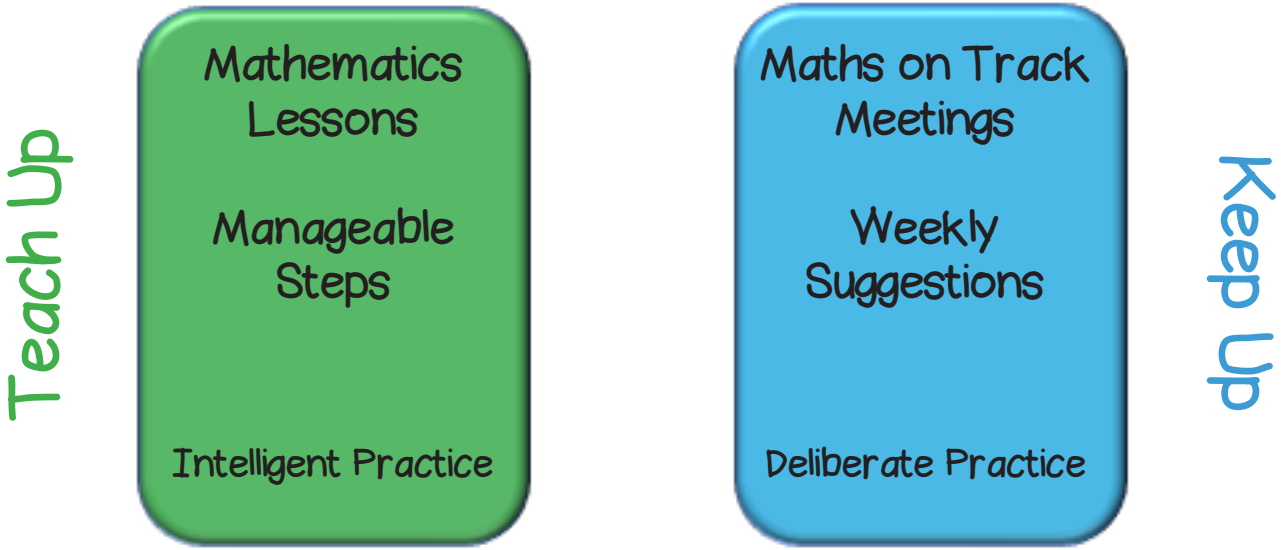
Year 5

Termly Plans
Academic Year 2021 - 2022



Introduction

This termly plan has been carefully designed to support you to plan for successful learning of the year's maths from the National Curriculum.
The green sections provide the maths curriculum broken down into manageable steps
Manageable to teach and manageable to learn.
The blue lessons of 'Remember This' and 'Extra Problem Solving' provide flexibility within the timing of the plan for you to make decisions for your own class.
Remember It at the end of each term is a session to check the learning that has taken plave during the term using the CanDoMaths Remember It for that term.

The second section on each termly plan, in blue, sets out a suggested structure for the second maths session each day - an essential element in the CanDoMaths curriculum plan.
The content on Monday and Tuesday is based on the Magic 24 from the ArithmeKit which is a separate resource that can be used to support your planning. The Magic 24 are key elements of arithmetic to secure during the year.
In your Wednesday and Thursday maths meetings it is sugggetsed that you use deliberate practice to secure sustainable progress - based on past an present learning. You may want to use CanDoMaths Deliberate Practcie and Retrieve It resources to support your planning for these sessions.
The bright pink fact column suggests a number fact to prioiritise throughout the week and Friday is suggested as an opportunity to really hit a number fact hard. CanDoBonds, CanDoTables and CanDo21 are additional resources that would support your planning of these sessions.

Year 5 Term 1

Term 1 W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
02/09/2021	T	KPI 1, 2	6NPV-2, 3	Number and Place Value	TDD		
	F				Represent 5-digit numbers		CanDoTables 6x6
06/09/2021	M			Number and Place Value	Recognise the value of digits in 5-digit numbers	6 x tables facts	ArithmeCheck 4
	T				Read 5-digit numbers in words and write using numerals including zero as a place holder		4.1 Order numbers beyond 1000 and position them on a number line
	W				Read 5-digit numbers in numerals and write in words, including zero as a place holder		Deliberate Practice: Past and Present
	T				Identify and represent 5-digit numbers on a number line		Deliberate Practice: Past and Present
	F				Compare 5-digit numbers		CanDoTables 6x7
13/09/2021	M			Number and Place Value	Represent numbers up to one million	7 x table facts	4.3 Round numbers to the nearest 10, 100 or 1000
	T				Recognise the value of digits in numbers up to one million		4.3 Round numbers to the nearest 10, 100 or 1000
	W				Read 6-digit numbers in words and write using numerals including zero as a place holder		Deliberate Practice: Past and Present
	T				Read 6-digit numbers in numerals and write in words, including zero as a place holder		Deliberate Practice: Past and Present
	F				Identify and represent 6-digit numbers on a number line		CanDoTables 7x7
20/09/2021	M	KPI 4		Number and Place Value	Compare 6-digit numbers	7 x table facts	4.5 Use number facts to add
	T				Order numbers up to one million		4.9 Use number facts to subtract
	W				Round any 5-digit number to the nearest 10 000		Deliberate Practice: Past and Present
	T				Round any 6-digit number to the nearest 100 000		Deliberate Practice: Past and Present
	F				Count forwards and backwards in whole number steps including through zero		CanDoTables 7x8
27/09/2021	M	KPI 5		Decimals	Understand and use negative numbers in context, including temperatures below 0°C	8 x table facts	4.2 Order decimal numbers and posiiton them on a number line
	T				Read Roman numerals to 1000 (M)		4.2 Order decimal numbers and posiiton them on a number line
	W				Recognise years written in Roman numerals		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
	F				Read a number with three decimal places		CanDoTables 8x6
04/10/2021	M			Decimals	Represent decimal numbers with up to 3 decimal places	8 x table facts	4.4 Round decimals with 1 decimal place to the nearest whole number
	T				Write decimal equivalents of any number of thousandths		4.4 Round decimals with 1 decimal place to the nearest whole number
	W				Identify decimal numbers, with up to 3 decimal places, on a number line		Deliberate Practice: Past and Present
	T				Position decimal numbers, with up to 3 decimal places, on a number line		Deliberate Practice: Past and Present
	F				Compare a set of numbers written to three decimal places		CanDoTables 8x8
11/10/2021	M	KPI 3	6NPV-1	Decimals	Order decimal numbers with 3 decimal places	12 x table facts	4.8 Choose appropriate written or mental methods to add 4-digit numbers
	T				Compare numbers with a mixed number of decimal places		4.8 Choose appropriate written or mental methods to add 4-digit numbers
	W				Order numbers with a mixed number of decimal places		Deliberate Practice: Past and Present
	T				Round numbers with two decimal places to one decimal place		Deliberate Practice: Past and Present
	F				Round numbers with two decimal places to the nearest whole number		CanDoTables 12x6
18/10/2021	M			Geometry: Properties of Shapes	Identify cubes from nets	12 x table facts	4.12 Choose appropriate written or mental methods to subtract numbers
	T				Identify cuboids from nets		4.12 Choose appropriate written or mental methods to subtract numbers
	W				Identify prisms from nets		Deliberate Practice: Past and Present
	T				Identify pyramids from nets		Deliberate Practice: Past and Present
	F				*End of Term Assessment: Remember It 1*		CanDoTables 12x7
Half Term							

Year 5 Term 2

Term 2. W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
01/11/2021	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
	F				Use column addition for numbers with 3 decimal places when regrouping is required		CanDoTables 12x8
08/11/2021	M			Addition and Subtraction	Use column addition for numbers with 1, 2 or 3 decimal places when regrouping is required	12 x table facts	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
	T				Add two decimal numbers choosing an efficient strategy		Deliberate Practice: Past and Present
	F				Subtract two decimal numbers choosing an efficient strategy		CanDoTables 12x11
15/11/2021	M	KPI 8	4MD-1, 5MD-1	Multiplication and Division: Powers of 10	Remember This?	12 x table facts	4.23 Use place value and known facts to divide mentally
	T				Multiply a whole number by 10		4.23 Use place value and known facts to divide mentally
	W				Multiply a whole number by 100		Deliberate Practice: Past and Present
	T				Multiply a whole number by 1000		Deliberate Practice: Past and Present
	F				Multiply a decimal by 10		CanDoTables 12x12
22/11/2021	M			Multiplication and Division: Powers of 10	Multiply a decimal by 100	3xTable RelatedFact	4.21 Multiply 3-digit numbers by 1-digit numbers using efficient methods
	T				Multiply a decimal by 1000		4.21 Multiply 3-digit numbers by 1-digit numbers using efficient methods
	W				Divide a whole number by 10		Deliberate Practice: Past and Present
	T				Divide a whole number by 100		Deliberate Practice: Past and Present
	F				Divide a whole number by 1000		CanDo21 3x3
29/11/2021	M			Multiplication and Division: Powers of 10	Divide a decimal by 10	3xTable RelatedFact	4.24 Divide 3-digit numbers by 1-digit numbers using efficient methods
	T				Divide a decimal by 100		4.24 Divide 3-digit numbers by 1-digit numbers using efficient methods
	W				Extra Problem Solving		Deliberate Practice: Past and Present
	T				Extra Problem Solving		Deliberate Practice: Past and Present
	F				Remember This?		CanDo21 3x4
06/12/2021	M	KPI 9	5MD-2	Multiplication and Division: Properties of Number	Find prime numbers up to 20	3xTable RelatedFact	5.2 Compare and order numbers up to 1,000,000
	T				Find prime and composite numbers up to 20		5.4 Round numbers to the nearest 10, 100, 1000, 10,000 and 100,000
	W				Express a given number as the product of prime factors		Deliberate Practice: Past and Present
	T				Know how to test if a number up to 100 is prime		Deliberate Practice: Past and Present
	F				Find the common factors of two numbers		CanDo21 3x6
13/12/2021	M			Multiplication and Division: Properties of Number	Find multiples of a given number	3xTable RelatedFact	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
	W				Find cube numbers and use the notation for cubed		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		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
04/01/2022	M	KPI 10	5MD-3	Multiplication and Division: Written Methods	TDD		
	T				Remember This?	5xtable RelatedFact	5.3 Compare and order decimals
	W				Multiply numbers up to 4-digits by a one-digit number using short multiplication		Deliberate Practice: Past and Present
	T				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	3xtable RelatedFact	CanDo21 3x8
10/01/2022	M			Multiplication and Division: Written Methods	Multiply 3 digit numbers by 2 digit numbers using long multiplication		5.3 Compare and order decimals
	T				Multiply 4 digit numbers by 2 digit numbers using long multiplication	5xtable RelatedFact	5.5 Round decimal numbers
	W				Use efficient methods to multiply mentally		Deliberate Practice: Past and Present
	T				Use known facts and place value to multiply a whole number by a decimal		Deliberate Practice: Past and Present
	F				Multiply a one-digit number by a decimal (1dp) using a formal written method	3xtable RelatedFact	CanDo21 3x9
17/01/2022	M	KPI 12, 13		Multiplication and Division: Written Methods	Multiply a one-digit number by a decimal (2dp) using a formal written method		5.3 Compare and order decimals
	T				Extra Problem solving	4xtable RelatedFact	5.5 Round decimal numbers
	W				Extra Problem solving		Deliberate Practice: Past and Present
	T				Extra Problem solving		Deliberate Practice: Past and Present
	F				EXtra Problem solving	4xtable RelatedFact	CanDo21 4x4
24/01/2022	M	KPI 11	5MD-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		5.12 Multiply by 100, 100 and 1000
	T				Divide a four-digit number by a one-digit number using short division (thousands digit = multiple of divisor, divisor < hundreds digit) with no remai		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 no remainder		Deliberate Practice: Past and Present
	T				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				Divide a four-digit number by a one-digit number using short division (divisor > thousands digit) with a remainder	4xtable RelatedFact	CanDo21 4x6
31/01/2022	M			Multiplication and Division: Written Methods	Extra Problem solving		5.12 Multiply by 100, 100 and 1000
	T				Extra Problem solving		5.17 Divide by 10, 100 and 1000
	W				Extra Problem solving		Deliberate Practice: Past and Present
	T				Extra Problem solving		Deliberate Practice: Past and Present
	F				Extra Problem solving	4xtable RelatedFact	CanDo21 4x6
07/02/2022	M			Geometry: Position and Direction	Remember This?		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
	T				Carry out a translation described using mathematical language		Deliberate Practice: Past and Present
	F				Carry out a reflection using a line parallel to the axes including touching the object	4xtable RelatedFact	CanDo21 4x7
14/02/2022	M			Geometry: Position and Direction	Carry out a reflection using a line parallel to the axes and crossing the object		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
	T				Extra Problem solving		Deliberate Practice: Past and Present
	F				*End of Term Assessment: Remember It 3*	4xtable RelatedFact	CanDo21 4x7
Half Term							

Year 5 Term 4

Term 4. W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
28/02/2022	M	KPI14	3F-3, 3F-2, 6F-2	Fractions, Decimals and Percentages	Remember This?	4xTable RelatedFact	4.6 Use place value or adjusting to add numbers mentally
	T				Identify equivalent fractions represented visually		4.16 Double decimal and whole numbers
	W				Compare fractions whose denominators are multiples of the same number		Deliberate Practice: Past and Present
	T				Order fractions whose denominators are multiples of the same number		Deliberate Practice: Past and Present
	F				Represent tenths and hundredths		CanDo21 4x7
07/03/2022	M	KPI15	(5F-3)	Fractions, Decimals and Percentages	Write a number less than1 with one decimal place as a fraction	4xTable RelatedFact	4.6 Use place value or adjusting to add numbers mentally
	T				Write a number less than 1 with two decimal places as a fraction		4.16 Double decimal and whole numbers
	W				Write a number less than 1 with three decimal places as a fraction		Deliberate Practice: Past and Present
	T				Understand that per cent relates to number of parts per hundred		Deliberate Practice: Past and Present
	F				Write any percentage as a fraction with a denominator of 100		CanDo21 4x8
14/03/2022	M	KPI16		Fractions, Decimals and Percentages	Write any percentage as a decimal	4xTable RelatedFact	4.6 Use place value or adjusting to add numbers mentally
	T				Know percentage equivalents of 1/2, 1/4, 1/5, 2/5, 4/5		4.16 Double decimal and whole numbers
	W				Establish percentage equivalents of fractions with a denominator of multiples of 10		Deliberate Practice: Past and Present
	T				Establish percentage equivalents of fractions with a denominator of multiples of 25		Deliberate Practice: Past and Present
	F				Extra Problem Solving		CanDo21 4x8
21/03/2022	M	KPI17	5NPV-5	Measurement: Length, Mass and Capacity	Remember This?	4xTable RelatedFact	4.9 Use place value or adjusting to subtract numbers mentally
	T				Convert kilometres to metres using decimal notation		4.21 Halve decimal and whole numbers
	W				Convert metres to kilometres using decimal notation		Deliberate Practice: Past and Present
	T				Convert metres to centimetres using decimal notation		Deliberate Practice: Past and Present
	F				Convert centimetres to metres using decimal notation		CanDo21 4x9
28/03/2022	M			Measurement: Length, Mass and Capacity	Convert between centimetres and millimetres using decimal notation	4xTable RelatedFact	4.9 Use place value or adjusting to subtract numbers mentally
	T				Calculate the perimeter of composite rectilinear shapes where all measurements are given including mixed units		4.21 Halve decimal and whole numbers
	W				Calculate the perimeter of composite rectilinear shapes where some measurements need to be calculated		Deliberate Practice: Past and Present
	T				Convert between kilograms and grams using decimal notation		Deliberate Practice: Past and Present
	F				Convert between litres and millilitres using decimal notation		CanDo21 4x9
04/04/2022	M			Measurement: Length, Mass and Capacity	Know approximate equivalences between metric and imperial units including pounds and pints	4xTable RelatedFact	4.9 Use place value or adjusting to subtract numbers mentally
	T				Know approximate equivalences between inches and centimetres		4.21 Halve decimal and whole numbers
	W				Extra Problem Solving		Deliberate Practice: Past and Present
	T				Extra Problem Solving		Deliberate Practice: Past and Present
	F				*End of Term Assessment: Remember It 4*		CanDo21 4x9
Easter Break							

Year 5 Term 5

Term 5. W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
25/04/2022	M	KPI 18	4F-2	Fractions: Calculating	Remember This?	6xTable RelatedFact	5.14 Multiply numbers mentally using known facts and place value
	T				Convert a mixed number into an improper fraction		5.22 Compare and order fractions
	W				Convert an improper fraction into a mixed number		Deliberate Practice: Past and Present
	T				Add proper fractions denominator multiples within the whole		Deliberate Practice: Past and Present
	F				Add proper fractions denominator multiples = mixed number answer		CanDo21 6x6
02/05/2022	M	KPI 19	4F-3	Fractions: Calculating	Bank Holiday	6xTable RelatedFact	
	T				Add mixed number and proper fraction, same denominator = mixed number answer		5.22 Compare and order fractions
	W				Add mixed number and proper fraction, same denominator = mixed number answer (beyond whole)		Deliberate Practice: Past and Present
	T				Add mixed numbeer and proper fraction, denominator multiples = mixed number answer		Deliberate Practice: Past and Present
	F				Add mixed number and proper fraction, denominator multiples = mixed number answer (beyond whole)		CanDo21 6x6
09/05/2022	M	KPI 20	4F-3	Fractions: Calculating	Extra Problem Solving	6xTable RelatedFact	5.14 Multiply numbers mentally using known facts and place value
	T				Subtract proper fraction from mixed number, same denominator within the whole		5.22 Compare and order fractions
	W				Subtract proper fraction from mixed number, same denominator (across whole)		Deliberate Practice: Past and Present
	T				Subtract proper fractions, denominator multiples within the whole		Deliberate Practice: Past and Present
	F				Subtract proper fractions from mixed number, denominator multiples within the whole		CanDo21 6x7
16/05/2022	M	KPI 21		Fractions: Calculating	Subtract proper fractions from mixed number, denominator multiples (across whole)	6xTable RelatedFact	5.19 Divide numbers mentally using known facts and place value
	T				Extra Problem Solving		5.24 Solve problems: Percentage and decimal equivalents
	W				Extra Problem Solving		Deliberate Practice: Past and Present
	T				Multiply unit fraction by a whole number		Deliberate Practice: Past and Present
	F				Multiply non-unit fraction by a whole number		CanDo21 6x7
23/05/2022	M			Fractions: Calculating	Multiply mixed number by a whole number	6xTable RelatedFact	5.19 Divide numbers mentally using known facts and place value
	T				Multiply mixed number by a whole number (beyond whole)		5.24 Solve problems: Percentage and decimal equivalents
	W				Extra Problem Solving		Deliberate Practice: Past and Present
	T				Extra Problem Solving		Deliberate Practice: Past and Present
	F				*End of Term Assessment: Remember It 5*		CanDo21 6x8
Half Term							

Year 5 Term 6

Term 6. W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
06/06/2022	M	KPI 22	5G-2	Measurement: Area and Volume	Remember This?	6xTable RelatedFact	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
	F				Find an estimate for the area of shapes that are not rectangles		CanDo21 6x8
13/06/2022	M			Measurement: Area and Volume	Find an estimate for the volume of a 3D shape	6xTable RelatedFact	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				Remember This?		Deliberate Practice: Past and Present
	T				Identify reflex angles		Deliberate Practice: Past and Present
	F				know angles are measured in degrees		CanDo21 6x9
20/06/2022	M	KPI 23	5G-1	Geometry: Properties of Shapes	Estimate acute, obtuse and reflex angles	7xTable RelatedFact	5.7 Add numbers with more than 4 digits using efficient methods
	T				Use a protractor to measure acute angles		5.13 Multiply numbers mentally using factors or partitioning
	W				Use a protractor to measure obtuse angles		Deliberate Practice: Past and Present
	T				Use a protractor to measure reflex angles		Deliberate Practice: Past and Present
	F				Use a protractor to draw acute angles		CanDo21 7x7
27/06/2022	M			Geometry: Properties of Shapes	Use a protractor to draw obtuse angles	7xTable RelatedFact	5.7 Add numbers with more than 4 digits using efficient methods
	T				Use a protractor to draw reflex angles		5.13 Multiply numbers mentally using factors or partitioning
	W				Identify and find angles at a point		Deliberate Practice: Past and Present
	T				Identify and find angles at a point on a straight line		Deliberate Practice: Past and Present
	F				Use the properties of rectangles to find missing lengths and angles		CanDo21 7x8
04/07/2022	M			Measurement: Time	Know the difference between a regular and an irregular polygon	7xTable RelatedFact	5.10 Subtract numbers with more than 4 digits using efficient methods
	T				Extra Problem Solving		5.18 Divide numbers mentally using factors or partitioning
	W				Remember This?		Deliberate Practice: Past and Present
	T				Convert from seconds to minutes		Deliberate Practice: Past and Present
	F				Convert from minutes to hours		CanDo21 7x8
11/07/2022	M	KPI 24		Measurement: Time	Convert from hours to days	7xTable RelatedFact	5.10 Subtract numbers with more than 4 digits using efficient methods
	T				Convert from days to weeks		5.18 Divide numbers mentally using factors or partitioning
	W				Read and interpret information given in a timetable		Deliberate Practice: Past and Present
	T				Read and interpret information given in a table		Deliberate Practice: Past and Present
	F				Read and interpret information given in a line graph		CanDo21 7x9
18/07/2022	M			Statistics	Extra Problem Solving	7xTable RelatedFact	5.10 Subtract numbers with more than 4 digits using efficient methods
	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
	F				*End of Term Assessment: Remember It 6*		CanDo21 7x9
Summer Holiday							