



Year 6

Termly Plans Academic Year 2020 - 2021

Teach Up

Mathematics Lessons

Manageable Steps

Intelligent Practice

Maths on Track Meetings

Weekly Suggestions

Deliberate Practice

Keep Up



Year 6 Term 1

Term 1 W/c		Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
01/09/2020	M	Number and Place Value	TDD	8xtable Related Facts	ArithmeCheck 5
	T		Represent 7-digit numbers		Deliberate Practice: Past and Present
	W		Recognise the value of digits in 7-digit numbers		Deliberate Practice: Past and Present
	F		Read 7-digit numbers in words and write using numerals including zero as a place holder		CanDo21 8x8
07/09/2020	M	Number and Place Value	Identify and represent 7-digit numbers on a number line	8xtable Related Facts	5.2 Compare and order numbers up to 1,000,000
	T		Compare numbers up to 10,000,000		5.2 Compare and order numbers up to 1,000,000
	W		Order numbers up to 10,000,000		Deliberate Practice: Past and Present
	T		Round whole numbers to different degrees of accuracy		Deliberate Practice: Past and Present
14/09/2020	M	Decimals	Understand and use negative numbers when working in context, such as temperature	8xtable Related Facts	CanDo21 8x9
	T		Calculate intervals across zero		5.3 Compare and order decimal numbers
	W		Extra Problem Solving		5.3 Compare and order decimal numbers
	F		Identify the value of digits in decimal numbers		Deliberate Practice: Past and Present
21/09/2020	M	Decimals	Multiply decimals by 10	9xtable Related Facts	Deliberate Practice: Past and Present
	T		Multiply decimals by 100		Deliberate Practice: Past and Present
	W		Multiply decimals by 1000		CanDo21 8x9
	F		Divide decimals by 10		5.7 Add numbers with more than 4 digit using efficient methods
28/09/2020	M	Multiplication and Division	Divide decimals by 100	12xtable Related Facts	5.7 Add numbers with more than 4 digit using efficient methods
	T		Multiply decimals (1d.p.) by a 1-digit number		Deliberate Practice: Past and Present
	W		Multiply decimals (2d.p.) by a 1-digit number		Deliberate Practice: Past and Present
	F		Extra Problem Solving		CanDo21 9x9
05/10/2020	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
	F		Multiply a four-digit number by a two-digit number using long multiplication		Deliberate Practice: Past and Present
12/10/2020	M	Multiplication and Division	Divide a three-digit number by a two-digit number using a formal written method with no remainder	12xtable Related Facts	CanDo21Plus 12x3
	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		5.10 Subtract numbers with more than 4 digit using efficient methods
	F		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
19/10/2020	M	Geometry: Position and Direction	Divide a four-digit number by a two-digit number using a formal written method with no remainder	12xtable Related Facts	Deliberate Practice: Past and Present
	T		Divide a four-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction		Deliberate Practice: Past and Present
	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
	F		Extra Problem Solving		CanDo21Plus 12x4
19/10/2020	M	Geometry: Position and Direction	Use coordinates to describe the position of a point in all four quadrants	12xtable Related Facts	5.1 Solve problems with negative numbers
	T		Use coordinates to plot the position of a point in any of the four quadrants		5.1 Solve problems with negative numbers
	W		Draw and translate simple shapes		Deliberate Practice: Past and Present
	F		Carry out a reflection using one of the axes as a mirror line		Deliberate Practice: Past and Present
		End of Term Assessment: Remember It		CanDo21Plus 12x6	
Half Term					



Year 6 Term 2

Term 2. W/c		Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24	
02/11/2020	M	Fractions, Decimals and Percentages	Use common factors to simplify fractions		12xTable Related Facts	5.8 Add decimal numbers using efficient written or mental methods
	T		Use common multiples to find equivalent fractions			5.8 Add decimal numbers using efficient written or mental methods
	W		Compare proper fractions			Deliberate Practice: Past and Present
	T		Compare fractions, including fractions > 1			Deliberate Practice: Past and Present
09/11/2020	F	Fractions, Decimals and Percentages	Order proper fractions			CanDo21Plus 12x7
	M		Order fractions, including fractions > 1			5.11 Subtract decimal numbers using efficient written or mental methods
	T		Calculate decimal equivalents of fifths, eighths and tenths			5.11 Subtract decimal numbers using efficient written or mental methods
	W		Know simple fractions and decimal equivalences for 10%, 20%, 25%, 50%, 75%, 100%			Deliberate Practice: Past and Present
16/11/2020	T	Geometry: Properties of Shapes (Angles)	Find missing angles where they meet on a straight line			Deliberate Practice: Past and Present
	W		Find missing angles where they are vertically opposite	Deliberate Practice: Past and Present		
	T		Find unknown angles in a triangle	CanDo21Plus 12x7		
	F		Find unknown angles in an isosceles triangle when only one angle is known	5.15 Multiply numbers using efficient written or mental methods		
23/11/2020	M	Geometry: Properties of Shapes (Angles)	Find unknown angles in a quadrilateral	5.15 Multiply numbers using efficient written or mental methods		
	T		Find unknown angles in regular polygons	5.15 Multiply numbers using efficient written or mental methods		
	W		Classify 2D shapes using given categories; e.g. number of sides, symmetry	Deliberate Practice: Past and Present		
	T		Draw 2-D shapes given angles	Deliberate Practice: Past and Present		
30/11/2020	F	Geometry: Properties of Shapes	Draw 2-D shapes given dimensions and/or angles	CanDo21Plus 12x8		
	M		Recognise and describe 3-D shapes	5.20 Divide numbers using efficient written or mental methods		
	T		Classify 3-D shapes including cylinders, cones and spheres	5.20 Divide numbers using efficient written or mental methods		
	W		Draw nets of 3-D shapes	Deliberate Practice: Past and Present		
07/12/2020	T	Addition, Subtraction, Multiplication and Division	Construct diagrams of 3-D shapes on isometric paper	Deliberate Practice: Past and Present		
	F		Know the names and relationships of the parts of a circle	CanDo21Plus 12x9		
	M		Extra Problem Solving	5.23 Add and subtract fractions		
	T		Carry out calculations involving a mixture of addition and subtraction	5.23 Add and subtract fractions		
14/12/2020	W	Addition, Subtraction, Multiplication and Division	Carry out calculations involving a mixture of multiplication and division	Deliberate Practice: Past and Present		
	T		Carry out calculations involving a mixture of multiplication and addition/subtraction	Deliberate Practice: Past and Present		
	F		Carry out calculations involving a mixture of division and addition/subtraction	CanDo21Plus 12x9		
	M		Carry out calculations involving all four operations, including brackets	CanDoSATs 1 Place value		
Christmas break	T	Addition, Subtraction, Multiplication and Division	Carry out calculations involving a mixture of addition and/or subtraction and indices	CanDoSATs 1 Place value		
	W		Carry out calculations involving a mixture of multiplication and/or division and indices	Deliberate Practice: Past and Present		
	T		Extra Problem Solving	Deliberate Practice: Past and Present		
	F		End of Term Assessment: Remember It	CanDo21Plus 12x11		



Year 6 Term 3

Term 3. W/c		Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the CanDoSATs resource				
04/01/2021	M	Fractions: Calculating	TDD	12xtable Related Facts	22. Calculate duration of events Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x11				
	T		Remember This?						
	W		Add proper fractions (denominators not multiples of each other) within the whole						
	T		Add proper fractions (denominators not multiples of each other) beyond the whole (mixed number answer)						
05/01/2021	F	Fractions: Calculating	Add mixed number and proper fractions (denominators not multiples of each other) fractions within whole (mixed number answer)			12xtable Related Facts	3. Negative numbers 4. Count forwards/backwards and sequences Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 12x12		
	M		Add mixed and proper fractions (denominators not multiples of each other) fractions beyond the whole (mixed number answer)						
	T		Add mixed numbers (same denominators), fractions within and beyond the whole (mixed number answer)						
	W		Add mixed numbers (denominators multiples of each other) fractions within the whole (mixed number answer)						
18/01/2021	T	Fractions: Calculating	Add mixed numbers (denominators multiples of each other) fractions beyond the whole (mixed number answer)					11xtable Related Facts	5. Multiples, factors, primes and squares 6. Add and subtract numbers with up to 2 significant figures Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21Plus 11x11
	F		Add mixed numbers (denominators not multiples of each other) fractions within the whole (mixed number answer)						
	M		Add mixed numbers (denominators not multiples of each other) fractions beyond the whole (mixed number answer)						
	T		Extra Problem Solving						
25/01/2021	W	Fractions: Calculating	Subtract proper fractions (denominators not multiples of each other) within the whole	Need to know	7. Add and subtract numbers with more than 4-digits 9. Multiply and divide whole numbers mentally using 12x12 facts and place value Deliberate Practice: Past and Present Deliberate Practice: Past and Present Address identified gaps / Practise solving routine and non-routine problems				
	T		Subtract proper fractions from mixed numbers, fractions within the whole (denominators not multiples of each other)						
	F		Subtract proper fractions from mixed numbers, fractions across the whole (denominators not multiples of each other)						
	M		Subtract mixed number from mixed numbers (same denominators), fractions within the whole						
01/02/2021	T	Fractions: Calculating	Subtract mixed number from mixed numbers (same denominators), fractions across the whole			Need to know	8. Multiply and divide whole numbers and decimals up to 2d.p. by powers of 10 10. Multiply and divide 2,3&4-digit numbers by 1&2-digit numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present Address identified gaps / Practise solving routine and non-routine problems		
	W		Subtract mixed number from mixed numbers (denominators multiples of each other), fractions within the whole						
	T		Subtract mixed number from mixed numbers (denominators multiples of each other), fractions across the whole						
	F		Subtract mixed number from mixed numbers (denominators not multiples of each other), fractions within the whole						
08/02/2021	M	Fractions: Calculating	Subtract mixed number from mixed numbers (denominators not multiples of each other), fractions across the whole					Need to know	11. Recognise and use equivalent fractions 12. Recognise and use equivalencies between simple fractions, decimals and % Deliberate Practice: Past and Present Deliberate Practice: Past and Present Address identified gaps / Practise solving routine and non-routine problems
	T		Extra Problem Solving						
	W		Divide fraction by whole number (numerator = multiple of divisor)						
	T		Divide fraction by whole number (numerator not a multiple of divisor)						
Half Term	F		Mock SATs						
	F		Mock SATs						




Year 6 Term 4

Term 4. W/c		Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the CanDoSATs resource
22/02/2021	M	Ratio and Proportion	Remember This?	CanDo21 6 x 7	11. Recognise and use equivalent fractions
	T		Find 10%, 25%, 50% and 75% of an amount		11. Recognise and use equivalent fractions
	W		Find simple percentages of an amount (multiples of 10% and 5%)		12. Recognise and use equivalencies between fractions, decimals and percentages
	T		Find complex percentages of an amount (eg 17%, 28%, 63%)		12. Recognise and use equivalencies between fractions, decimals and percentages
01/03/2021	F	Ratio and Proportion	Use percentages to make comparisons	CanDo21 6 x 8	Address identified gaps / Practise solving routine and non-routine problems
	M		Find the value of the parts, given the whole		13. Find simple fractions and percentages of a quantity
	T		Find the value of the whole and parts, given one part		13. Find simple fractions and percentages of a quantity
	W		Use scale factors to calculate dimensions in similar shapes		26. Shape Properties
08/03/2021	T	Measurement: Converting Units	Use scale drawings	CanDo21 6 x 9	26. Shape Properties
	F		Extra Problem Solving		Address identified gaps / Practise solving routine and non-routine problems
	M		Convert between metric units from the smaller unit to the larger unit		27. 3-D shapes and nets
	T		Convert between metric units from the larger unit to the smaller unit		27. 3-D shapes and nets
15/03/2021	W	Measurement: Area and Volume	Convert between units of time	CanDo21 7 x 8	28. Constructions
	T		Convert between miles and km		28. Constructions
	F		Recognise that shapes with the same areas can have different perimeters and vice versa		Address identified gaps / Practise solving routine and non-routine problems
	M		Calculate the area of a parallelogram		16. Add and Subtract Decimals
22/03/2021	T	Algebra	Calculate the area of a triangle	CanDo21 7 x 9	16. Add and Subtract Decimals
	W		Calculate the volume of cuboids, including cubes		17. Multiply 1-digit decimal number by single digit number
	T		Extra Problem Solving		17. Multiply 1-digit decimal number by single digit number
	F		Use simple formulae expressed in words (e.g. time needed to cook a chicken: allow 20 minutes plus 40 minutes per kilogram)		Address identified gaps / Practise solving routine and non-routine problems
29/03/2021	M	Algebra	Know the basic rules of algebraic notation	CanDo21 12 x 7	14. Add and Subtract Fractions with same denominators including Mixed Numbers
	T		Express missing number problems algebraically		14. Add and Subtract Fractions with same denominators including Mixed Numbers
	W		Find combinations of two variables		15. Add and Subtract Fractions, denominators that are multiples of same number
	T		Find pairs of numbers that satisfy an equation with two unknowns e.g. $a + b = 15$		15. Add and Subtract Fractions, denominators that are multiples of same number
Easter Break	F		Generate a linear sequence from its description		Address identified gaps / Practise solving routine and non-routine problems
	M		Describe and find the next terms of a linear sequence		29. Angle facts
	T		Find a missing term in a linear sequence		29. Angle facts
	W		Describe a number pattern algebraically		31. Co-ordinates
	T		Extra Problem Solving		30. Reflections and Translations
	F		Good Friday		



Year 6 Term 5

Term 5. W/c		Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
19/04/2021	M	 Statistics	Interpret line graphs		Deliberate Practice: Past and Present Deliberate Practice: Past and Present Deliberate Practice: Past and Present Deliberate Practice: Past and Present Address identified gaps / Practise solving routine and non-routine problems
	T		Construct line graphs		
	W		Interpret pie charts		
	T		Construct a pie chart by measuring angles		
	F		Understand the meaning of 'average' and calculate the mean of a set of discrete data		
26/04/2021	M	Targeted Revision	Interpret the mean of a set of discrete data	Deliberate Practice: Past and Present Deliberate Practice: Past and Present Deliberate Practice: Past and Present Deliberate Practice: Past and Present Address identified gaps / Practise solving routine and non-routine problems	
	T		Targeted Revision		
	W		Targeted Revision		
	T		Targeted Revision		
	F		Targeted Revision		
03/05/2021	M	Targeted Revision	Bank Holiday	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		Targeted Revision		
	W		Targeted Revision		
	T		Targeted Revision		
	F		Targeted Revision		
10/05/2021	M	SATs	SATs	Deliberate Practice: Past and Present Deliberate Practice: Past and Present Deliberate Practice: Past and Present Deliberate Practice: Past and Present Extra Problem solving	
	T		SATs		
	W		SATs		
	T		SATs		
	F		SATs		
17/05/2021	M	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 Extra Problem solving	
	T		Extra Problem Solving		
	W		Extra Problem Solving		
	T		Extra Problem Solving		
	F		Extra Problem Solving		
24/05/2021	M	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 Extra Problem solving	
	T		Extra Problem Solving		
	W		Extra Problem Solving		
	T		Extra Problem Solving		
	F		Extra Problem Solving		
Half Term					



Year 6 Term 6

Term 6. W/c		Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
07/06/2021	M	Fractions, Decimals and Percentages	Lessons to secure: Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order fractions, including fractions >1 Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1/4 \times 1/2 = 1/8$) Divide proper fractions by whole numbers Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $3/8$) Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places Multiply one-digit numbers with up to two decimal places by whole numbers. Use written division methods in cases where the answer has up to two decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	Related Facts	6.1 Identify the value of each digit to 3dp
	T				6.3 Compare and order decimals
	W				Deliberate Practice: Past and Present
	F				Deliberate Practice: Past and Present
14/06/2021	M	Fractions, Decimals and Percentages	Lessons to secure: Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order fractions, including fractions >1 Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1/4 \times 1/2 = 1/8$) Divide proper fractions by whole numbers Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $3/8$) Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places Multiply one-digit numbers with up to two decimal places by whole numbers. Use written division methods in cases where the answer has up to two decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	Related Facts	6.1 Identify the value of each digit to 3dp
	T				6.3 Compare and order decimals
	W				Deliberate Practice: Past and Present
	F				Deliberate Practice: Past and Present
21/06/2021	M	Fractions, Decimals and Percentages	Lessons to secure: Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order fractions, including fractions >1 Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1/4 \times 1/2 = 1/8$) Divide proper fractions by whole numbers Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $3/8$) Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places Multiply one-digit numbers with up to two decimal places by whole numbers. Use written division methods in cases where the answer has up to two decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	Related Facts	6.1 Identify the value of each digit to 3dp
	T				6.3 Compare and order decimals
	W				Deliberate Practice: Past and Present
	F				Deliberate Practice: Past and Present
28/06/2021	M	Algebra	Lessons to secure: Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables.	Related Facts	6.13 Compare and order fractions
	T				6.14 Recall and use equivalence between simple fractions and decimals
	W				Deliberate Practice: Past and Present
	F				Deliberate Practice: Past and Present
05/07/2021	M	Algebra	Lessons to secure: Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables.	Related Facts	6.13 Compare and order fractions
	T				6.14 Recall and use equivalence between simple fractions and decimals
	W				Deliberate Practice: Past and Present
	F				Deliberate Practice: Past and Present
12/07/2021	M	Ratio and Proportion	Lessons to secure: Solve problems involving the relative sizes of two quantities, where missing values can be found by using integer multiplication & division facts. Solve problems involving calculation of percentages and the use of percentages for comparison. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping, using knowledge of fractions and multiples.	Related Facts	6.13 Compare and order fractions
	T				6.14 Recall and use equivalence between simple fractions and decimals
	W				Deliberate Practice: Past and Present
	F				Deliberate Practice: Past and Present
19/07/2021	M	Transition Work			Deliberate Practice: Past and Present
	T				Deliberate Practice: Past and Present
	W				Deliberate Practice: Past and Present
	F				
Summer Holiday					