

Year Six

Overview



	Autumn Term		Spring Term		Summer Term	
Maths Topics	<ul style="list-style-type: none"> Integers and decimals Multiplication and division Calculation problems Fractions Missing angles and lengths Fractions 		<ul style="list-style-type: none"> Coordinates and shape Decimals and measures Percentages and statistics Proportion problems 		<ul style="list-style-type: none"> SATs prep Y7 transition prep 	
Maths Meetings Content (see Maths Mastery document for further detail)	<ul style="list-style-type: none"> Number and place value Number: addition, subtraction, multiplication and division Number: fractions decimals and percentages Ratio and proportion Algebra Measurement Geometry: properties of shapes and position and direction Statistics 					
Assessments & deadlines	<ul style="list-style-type: none"> Arithmetic (9th October) PUMA – Y5 Summer (9th October) 	<ul style="list-style-type: none"> Mock SATs – June 2018 papers (20th November) 	<ul style="list-style-type: none"> Mock SATs – June 2019 papers (11th February) 		<ul style="list-style-type: none"> SATs (10th – 13th May) 	

	Addition	Subtraction	Multiplication	Division	Fractions	Percentages
Y6	<ul style="list-style-type: none"> Add multiples of 10, 100, 1,000, 10,000, 100,000 and 1,000,000 to a number (up to 9,999,999) Add and subtract using negative numbers through zero Use BIDMAS to identify the correct order of operations 	<ul style="list-style-type: none"> Subtract multiples of 10, 100, 1,000, 10,000, 100,000 and 1,000,000 from a number up to 9,999,999) 	<ul style="list-style-type: none"> Multiply a 4-digit number by a 2-digit number using the formal method of multiplication Multiply one digit numbers with up to two decimal places by whole numbers Multiply a tenths number that is less than one by a multiple of 10 or 100 (e.g. 0.4 x 60) Multiply a number with decimals by a two digit number using the formal method of long multiplication (e.g. 5.1 x 28) 	<ul style="list-style-type: none"> Divide numbers up to 4 digits by a 2-digit number using the formal written method of long division (where the dividend may include a fraction) Divide numbers up to 4 digits by a 1-digit number using the formal written method of short division (where the dividend may include a fraction) 	<ul style="list-style-type: none"> Add and subtract fractions with different denominators (using two or three fractions) Add and subtract a mixed number to a fraction where there are different denominators Multiply pairs of proper fractions writing the answer in its simplest form Divide proper fractions by whole numbers 	<ul style="list-style-type: none"> Find a multiple of 5% of a number Find 1% of a number Find a multiple of 1% of a number

Autumn Term

	Monday	Tuesday	Wednesday	Thursday	Friday
Unit 1: Integers and decimals					
Week 1	Y6 U1 Pre-quiz	Y6 U1 L1 Read and write 7-digit numbers in words and numerals	Y6 U1 L2 Compare and order numbers up to ten million in ascending or descending order and by using < and >	Y6 U1 L3 Round to the required degree of accuracy	Y6 U1 L4 Round and estimate to an appropriate degree of accuracy for a given context
Week 2	Y6 U1 L6 Use a range of strategies to calculate addition	Y6 U1 L7 Use a range of strategies to calculate subtraction	Y5 U11 L4 Use a range of strategies to add decimal numbers	Y5 U11 L4 Use a range of strategies to subtract decimal numbers	Y6 U1 L8 Solve multi-step problems involving decimal numbers using addition or subtraction
Unit 1: Integers and decimals			Unit 2: Multiplication and division		
Week 3	Y6 U1 L9 Solve multi-step problems combining addition and subtraction	Y6 U1 Post-quiz Y6 U2 Pre-quiz	Y5 U11 L1 Represent decimal numbers in a variety of ways	Y6 U2 L1 Identify the value of each digit in numbers up to three decimal places	Y5 U11 L2 Multiply and divide by 10, 100 and 1000 involving decimal numbers
Week 4	Y6 U2 L2 Multiply and divide numbers by 10, 100 and 1000 within a context	Y6 U2 L3 Understand and use the terms 'common factor' and 'common multiple' as properties of numbers	Y6 U2 L4 Identify and describe factor properties of numbers (focusing on primes)	Y5 U11 L7 Multiply a decimal number by a whole number	Y6 U2 L5 Solve multiplication problems using known and derived facts.
Week 5	Y6 U2 L6 Use efficient strategies to multiply numbers, including decimals	Y6 U2 L7 Use formal written methods for short multiplication including multiplying decimals	Y5 U11 L13 Multiply by a two-digit number using long multiplication	Y6 U2 L8 Use formal written methods, including long multiplication, to solve a range of problems.	Y6 U2 L10 Explore efficient mental strategies for division

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Week 6	Y6 U2 L11 Use the formal written method for short division	Y6 U2 L12 Use the formal written method of long division to solve appropriate calculations	Y5 U14 L2 Solve problems involving division with remainders	Y6 U2 L13 Represent remainders in different ways depending on the context of the problem	Y6 U2 L14 Apply knowledge and understanding of multiplication, division, addition and subtraction to the real world.
Week 7	Y6 U2 Post-quiz	<i>Left for flexibility in planning and assessments.</i>			
Half-term					
Unit 3: Calculation problems					
Week 8	Y6 U3 Pre-quiz	Y6 U3 L1 Understand which operations have equal priority	Y6 U3 L2 Understand the order of operations including the use of brackets	Y6 U3 L3 Use and apply understanding of the order of operations	Y6 U3 L4 Generate and describe linear number sequences.
Week 9	Y6 U3 L5 Express missing numbers algebraically	Y6 U3 L6 Create algebraic expressions to represent everyday situations	Y6 U3 L7 Find all possibilities for two variables and apply this to satisfy equations with two unknowns	Y6 U3 L8 Represent and reason through problems and apply a range of problem-solving strategies	Y6 U3 Post-quiz Y6 U4 Pre-quiz
Unit 4: Fractions					
Week 10	Y6 U4 L1 Identify, describe and represent fractions	Y6 U4 L2 Understand and describe equivalence in terms of the relationships between and within equivalent fractions	Y6 U4 L3 Find equivalent fractions in their simplest form	Y6 U4 L4 Compare and order fractions using a range of strategies	Y6 U4 L5 Compare and order fractions using a range of strategies

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Week 11	Y6 U4 L6 Recall and use equivalence between simple decimals and fractions	Y6 U4 L7 Calculate decimal equivalents of fractions using short division	Y6 U4 L8 Use equivalent fractions to add and subtract fractions that have different denominators	Y6 U4 L9 Add and subtract fractions with different denominators	Y6 U4 Post-quiz Y6 U5 Pre-quiz
Unit 5: Missing angles and lengths					
Week 12	Y6 U5 L1 Recognise angles where they meet at a point, on a straight line or are vertically opposite, and find missing angles	Y6 U5 L2 Compare and classify triangles based on their properties	Y6 U5 L3 Compare and classify quadrilaterals based on their properties	Y6 U5 L4 Find unknown angles and lengths in triangles and quadrilaterals; to express missing number problems algebraically	Y6 U5 L5 Calculate unknown angles in regular polygons
Unit 7: Fractions					
Week 13	Y6 U5 Post-quiz Y6 U6 Pre-quiz	Y6 U7 L1 Understand and represent multiplication with proper fractions	Y6 U7 L2 Understand and use an efficient method for multiplying fractions	Y6 U7 L3 Solve problems involving multiplication of fractions	Y6 U7 L4 Divide fractions by integers
Week 14	Y6 U7 Post-quiz Y6 U6 Pre-quiz	<i>Left for flexibility in planning and assessments.</i>			

Spring Term

	Monday	Tuesday	Wednesday	Thursday	Friday
Unit 6: Coordinates and shape					
Week 1	Inset day	Y6 U6 L1 Draw 2-D shapes using given dimensions and angles	Y6 U6 L2 Describe coordinates on a full coordinates grid	Y6 U6 L3 Draw and translate simple shapes on the coordinate plane	Y6 U6 L4 Draw and reflect simple shapes on the coordinate plane
Week 2	Y6 U6 L5 Draw simple shapes on the coordinate plane; solve practical problems that involve coordinates	Y6 U6 L6 Draw simple shapes on the coordinate plane; solve practical problems that involve coordinates	Y5 U12 L7 Identify, compare and classify 3-D shapes based on their properties	Y6 U6 L8 Recognise and describe 3-D shapes and their nets	Y6 U6 L9 Recognise, build and describe 3-D shapes and their nets
Unit 6: Coordinates and shape		Unit 8: Decimals and measures			
Week 3	Y6 U6 L10 Illustrate and name parts of a circle; to solve practical problems that involve circles	Y6 U6 Post-quiz Y6 U8 Pre-quiz	Y6 U8 L1 Generate and describe linear number sequences with decimals	Y6 U8 L2 Use, read and write standard units of measure	Y5 U10 L3 & L4 Convert between units of length
Week 4	Y6 U8 L3 Convert between standard units of length and convert between miles and kilometres	Y6 U8 L4 Convert between standard units of length and convert between miles and kilometres	Y6 U8 L5 Use simple formulae to find the area of shapes	Y6 U8 L6 Calculate the area of triangles and parallelograms; use simple formulae	Y6 U8 L7 Investigate the relationship between area and perimeter
Week 5	Y6 U8 L8 Solve problems involving area and conversion	Y5 U13 L1, L2 & L3 Recognise and use cube numbers. Visualise and estimate volume of solids	Y6 U8 L9 Calculate, estimate and compare the volume of cubes and cuboids	Y6 U8 L10 Calculate, estimate and compare the volume of cubes and cuboids	Y6 U8 L11 Convert between standard units of mass; solve problems involving the conversion of mass

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Week 6	Y6 U8 L12 Convert between standard and imperial units of measure; solve problems involving the calculation and conversion of measurements	Y6 U8 L13 Solve problems involving the calculation and conversion of units of measure (mixed, including money)	Left for flexibility in planning and assessments.		
Half-term					
Unit 8: Decimals and measures				Unit 9: Percentages and statistics	
Week 7	Y6 U8 L14 Convert between different units of time	Y6 U8 L15 Solve problems involving units of time	Y6 U8 Post-quiz Y6 U9 Pre-quiz	Y6 U9 L1 Understanding percentages	Y6 U9 L2 Identify equivalence between fractions, decimals and percentages
Week 8	Y6 U9 L3 Solve problems involving the calculation of percentages of amounts	Y6 U9 L4 Solve problems involving the use of percentages for comparison	Y6 U9 L5 Calculate the mean as an average	Y6 U9 L6 Interpret line graphs	Y6 U9 L7 Accurately draw line graphs
Unit 9: Percentages and statistics					Unit 10: Proportion problems
Week 9	Y6 U9 L8 Interpret data presented in pie charts	Y6 U9 L9 Accurately construct pie charts.	Y6 U9 L10 Compare and interpret pie charts	Y6 U9 Post-quiz Y6 U10 Pre-quiz	Y6 U10 L1 Use fractions to express proportion
Week 10	Y6 U10 L2 Use ratio to express the relationship between two quantities	Y6 U10 L3 Solve problems involving similar shapes where the scale factor is known	Y6 U10 L4 Use a scale factor to enlarge a shape including a scale factor of less than one	Y6 U10 L5 Solve problems involving the relative sizes of two quantities	Y6 U10 L6 Solve problems involving the relative sizes of two quantities

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 11	Y6 U10 L7 Solve problems using knowledge of ratio	Y6 U10 L8 Solve problems involving unequal sharing using knowledge of fractions	Y6 U10 L9 Solve problems involving unequal sharing and the relative sizes of quantities	Y6 U10 Post-quiz	Left for flexibility in planning and assessments.
Week 12	Left for flexibility in planning and assessments.			School closed	School closed

Summer Term

To be used to prepare for KS2 SATs w/c 10th May.

Post-SATs Y7 transition materials – guidance to follow.