

Y7	Block	Unit	Topics	Topic Code	Building blocks	Topic Code
Terms 1 and 2	Number sense and calculations	Number sense	Using number lines Integer place value Decimal place value Ordering negative numbers Rounding integers Rounding decimals	M763 M704 M522 M527 M111 M431		
		Adding and subtracting	Adding integers Adding decimals Subtracting integers Subtracting decimals	M928 M429 M347 M152	Integer place value Decimal place value	M704 M522
		Multiplying	Multiplying and dividing by 10, 100 and 1000 Multiplying using place value Using a written method to multiply integers Using a written method to multiply decimals	M113 M911 M187 M803	Times tables Integer place value Decimal place value	M704 M522
		Dividing	Dividing numbers into equal groups Using a written method to divide integers Dividing with remainder Using a written method to divide by integers to get a decimal answer Using a written method to divide by decimals	M462 M354 M873 M262 M491	Times tables Integer place value Decimal place value	M704 M522
		Calculating with negative numbers	Adding and subtracting with negative numbers Multiplying and dividing with negative numbers	M106 M288	Times tables Using number lines Ordering negative numbers	M763 M527
		Order of operations	Calculating with roots and powers Using the correct order of operations Using the commutative laws Using the associative laws	M135 M521 M952 M409	Times tables Adding Subtracting Multiplying Dividing Calculating with negative numbers	M928, M429 M347, M152 M187, M803 M354, M262, M106, M288
	Expressions and equations	Expressions	Algebraic notation Algebraic terminology Simplifying expressions containing a single variable Simplifying expressions containing multiple variables Simplifying expressions containing non-linear terms	M813 M830 M795 M531 M949	Times tables Using the correct order of operations Using the commutative laws Using the associative laws Calculating with negative numbers	M521 M952 M409 M106, M288
		Substitution	Substituting into expressions with one operation Substituting into expressions with multiple operations Substituting into algebraic formulae Substituting into real-life formulae	M417 M327 M208 M979	Times tables Using the correct order of operations Calculating with negative numbers Algebraic notation	M521 M106, M288 M813
		Solving equations	Solving equations with one step Solving equations of the form $ax+b=c$ Solving equations of the form $x/a+b=c$	M707 M634 M647	Function machines Algebraic notation Substituting into expressions Using the correct order of operations Calculating with negative numbers	M175, M428 M813 M417, M327 M521 M106, M288
	Measures	Time	Converting units of time Using clocks Calculating with time Using timetables Using calendars	M515 M892 M627 M963 M747		
		Measures	Estimating and measuring length, mass and capacity Converting units of length, mass and capacity Using appropriate units	M828 M774 M487	Multiplying and dividing by 10, 100 and 1000 Using number lines	M113 M763

Terms 3 and 4	2D Shapes	Line and shape properties	Line properties Shape properties Symmetry	M814 M276 M523		
	Perimeter and area	Perimeter	Finding perimeters using grids Finding the perimeter of rectangles and simple shapes Finding the perimeter of compound shapes	M920 M635 M690	Adding Line properties Shape properties	M928, M429 M814 M276
		Area	Finding areas using grids Finding the area of rectangles Finding the area of compound shapes Finding the area of triangles Finding the area of compound shapes containing triangles	M900 M390 M269 M610 M996	Multiplying Line properties Shape properties	M187, M803 M814 M276
	Coordinates	Coordinates and shapes	Reading and plotting coordinates Solving shape problems involving coordinates	M618 M230	Shape properties	M276
	Factors, multiples and primes	Factors and multiples	Multiples Finding the lowest common multiple Finding factors and using divisibility tests Finding the highest common factor	M752 M227 M823 M698	Odd and even numbers Dividing numbers into equal groups Using a written method to divide integers	M777 M462 M354
		Primes	Finding prime numbers Prime factor decomposition	M322 M108	Times tables Finding factors and using divisibility tests Dividing numbers into equal groups	M823 M462
	Fractions	Writing and comparing fractions	Finding fractions of shapes Constructing fractions Finding equivalent fractions Simplifying fractions Ordering fractions Converting between mixed numbers and improper fractions	M158 M939 M410 M671 M335 M601	Finding the lowest common multiple Finding the highest common factor	M227 M698
		Adding and subtracting fractions	Adding and subtracting fractions Adding and subtracting mixed numbers	M835 M931	Finding the lowest common multiple Finding the highest common factor Finding equivalent fractions Simplifying fractions Converting between mixed numbers & improper fractions	M227 M698 M410 M671 M601
	Brackets	Single brackets	Using the distributive law Expanding single brackets Expanding single brackets and simplifying expressions Factorising into one bracket	M637 M237 M792 M100	Algebraic notation Simplifying expressions containing a single variable Finding the highest common factor	M813 M795 M698

	Angles	Angles	Types of angles Estimating angles Measuring angles Drawing angles	M502 M541 M780 M331		
		Finding unknown angles	Angles on a line and about a point Vertically opposite angles Angles in triangles	M818 M163 M351	Types of angles Solving equations with one step Solving equations of the form $ax + b = c$	M502 M707 M634
	Handling data and statistical diagrams	Averages and range	Calculating the range Calculating the median Finding the mode Calculating the mean	M328 M934 M841 M940	Place value Adding Subtracting Multiplying Dividing	M763, M704 M928, M429 M347, M152 M187, M803 M354, M262
		Tables and charts	Interpreting frequency tables and two-way tables Drawing and interpreting tally charts Drawing and interpreting pictograms Drawing bar charts Interpreting bar charts	M899 M597 M644 M460 M738		
		Collecting and presenting data	Collecting and recording data using tables Finding averages from frequency tables Choosing suitable averages and solving problems	M945 M127 M440	Averages and the range Interpreting frequency tables and two-way tables Drawing and interpreting tally charts Drawing and interpreting pictograms Drawing and interpreting bar charts	M328, M934, M899 M597 M644 M460, M738
	Proportion	Worded problems	Solving proportion problems	M478		
	Fractions, decimals and percentages	Multiplying and dividing fractions	Reciprocals Multiplying fractions Dividing fractions Multiplying with mixed numbers Dividing with mixed numbers	M216 M157 M110 M197 M265	Simplifying fractions Converting between mixed numbers & improper fractions	M671 M601
		Fractions of amounts	Fractions of amounts without a calculator Fractions of amounts with a calculator	M695 M684	Multiplying fractions Solving proportion problems	M157 M478
		Fractions, decimals and percentages	Converting between fractions and decimals Converting between fractions, decimals and percentages Ordering fractions, decimals and percentages Writing numbers as percentages of other numbers	M958 M264 M553 M235	Constructing fractions Finding equivalent fractions Simplifying fractions Ordering fractions Converting between mixed numbers & improper fractions	M939 M410 M671 M335 M601
	Probability	Theoretical probability	Using probability phrases Writing probabilities as fractions Writing probabilities as fractions, decimals and percentages Probabilities of mutually exclusive events Sample space diagrams Systematic listing	M655 M941 M938 M755 M718 M817	Constructing fractions Adding and subtracting fractions Converting between fractions, decimals and percentages Ordering fractions, decimals and percentages Writing numbers as percentages of other numbers	M939 M835 M264 M553 M235