

KO	KR	Topic	Sparx Code	Title	Covered	RAG	Revisit
2,3,4	3, 5, 7	Add, subtract, multiply and divide integers and decimals - formal written methods	U417	Adding and subtracting integers			
			U478	Adding and subtracting decimals			
			U127	Multiply integers			
			U293	Multiply decimals			
			U453	Divide integers			
			U868	Divide decimals			
2	3	Negative numbers	U742	Adding and subtracting negative numbers			
			U548	Multiplying and dividing negative numbers			
		Order and compare (using symbols: =, ≠, <, >, ≤, ≥)	U600	Ordering integers			
			U435	Ordering decimals			
			U947	Ordering negative numbers			
2	3	BIDMAS	U976	Correct order of operations			
11	23	Square numbers/roots; cubes/cube roots (and higher); know positive integer powers of 2,3,4,5	U851	Calculating with roots and powers			
5, 6	9, 11	Factors, multiples and primes	U211	Finding factors and using divisibility tests			
			U751	Finding the LCM			
			U529	Finding the HCF			
			U236	Finding prime numbers			
			U739	Prime factor decomposition			
			U250	Finding the HCF and LCM using prime factor decomposition			
11	23	Calculations involving roots, and integer indices	U235	Index rules with positive indices			
			U694	Index rules with negative indices			
8	17	Convert between percentages, terminating decimals and fractions	U888	Convert between fractions, decimals & percentages			
12	25	Standard form	U330	Using standard form with positive indices			
			U534	Using standard form with negative indices			
			U264	Multiplying & dividing numbers in standard form			
			U290	Adding & subtracting numbers in standard form			
			U161	Standard form with a calculator			
16	35	Algebraic Notation; Form algebraic expressions, distinguish between the terms: expression, equation, formula, inequality	U613	Using algebraic notation			
13	29	Simplify and manipulate expressions, including sums, products, powers, including index law	U662	Simplifying expressions using index laws			
		Algebraic factors, multiples, HCF/LCM					
		Collect like terms	U105	Simplifying expressions by collecting like terms			
		Multiply a single term over a bracket	U179	Expanding single brackets			
14	31	Factorise expressions by taking out common factors	U365	Factorising into one bracket			
		Expand a pair of brackets eg. $(a - 7)(a + 3)$	U768	Expanding double brackets			

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9	19	Round eg. to decimal places and significant figures	U480	Rounding integers			
			U298	Rounding decimals			
			U731	Rounding integers using significant figures			
			U965	Rounding decimals using significant figures			
			U108	Truncating decimals			
10	21	Estimate answers by rounding	U225	Estimating calculations			
		Error intervals, rounding and truncation	U657	Finding error intervals			
			U301	Finding error intervals for truncated numbers			
		Using your calculator	U926	Using a calculator			
57	137	Primary/secondary data, discrete/continuous data	U322	Types of data			
61	145	Mean, median mode - measures of central tendency	U260	Finding the mode			
			U456	Calculating the median			
			U291	Calculating the mean			
		Averages - problems	U717	Choosing suitable averages and solving problems			
58	139	Time series	U590	Drawing line graphs			
			U193	Interpreting line graphs			
61	145	Range - measures of spread; consideration of outliers	U526	Calculating the range			
58, 59	139, 141	Construct; frequency table, bar chart, pie chart, pictogram, line chart	U653	Drawing and interpreting tally charts			
			U506	Drawing and interpreting pictograms			
			U363	Drawing bar charts			
			U557	Interpreting bar charts			
			U508	Drawing pie charts			
			U172	Interpreting pie charts			
60	143	Scatter graphs, correlation, line of best fit	U199	Plotting scatter graphs			
			U128	Using lines of best fit			
		Lines of best fit to interpolate and extrapolate	U277	Interpreting scatter graphs			
50	119	Pythagoras theorem including calculating distance between points	U385	Using Pythagoras' theorem in 2D			
50, 51	119, 121	Trigonometry to calculate unknown lengths/angles in right angled triangles	U605	Understanding sin, cos and tan			
			U283	Finding unknown sides in right-angled triangles			
			U545	Finding unknown angles in right-angled triangles			
		Applying trigonometry in more complex 2D situations	U967	Angles of elevation and depression			
16	37	Substitute numerical values into formulae and expressions	U201	Substituting into expressions			
			U565	Substituting into algebraic formulae			
			U144	Substituting into real-life formulae			

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18	41	Sequences	U213	Term-to-term rules			
			U530 U498	Linear sequences (nth term)			
			U680	Special sequences			
			U978	Sequences from patterns/diagrams			
35	81	Metric units of length, area, volume/capacity, mass, time, money	U497	Using appropriate units			
			U388	Converting units of length, mass and capacity			
			U248	Converting units of area			
			U468	Converting units of volume			
			U902	Reading, converting and calculating with time			
41	97	Area	U970	Finding the area of compound shapes			
			U424	Finding the area of parallelograms			
			U945	Finding the area of triangles			
			U575	Finding the area of compound shapes containing triangles			
			U265	Finding the area of trapeziums			
			U343	PS: Area of triangles, parallelograms and trapeziums			
26	61	Conversion graphs	U638	Using and interpreting real-life graphs			
41	97	Circumference and area of circles	U767	Identifying parts of circles			
			U604	Finding the circumference of circles			
			U950	Finding the area of circles			
			U221	Finding the arc length of sectors			
			U373	Finding the area of sectors			
43	101	Volume	U786	Finding the volume of cubes and cuboids			
			U174	Finding the volume of prisms			
			U915	Finding the volume of cylinders			
15	33	Solving linear equations	U599	Constructing and solving equations			
			U755	Solving equations with one step			
			U325	Solving equations with two or more steps			
			U505	Solving equations with the variable in the denominator			
			U870	Solving equations with the variable on both sides			

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20	45	Solving simultaneous linear equations	U201	Substituting into expressions			
			U760	Solving simultaneous equations using elimination			
			U757	Solving simultaneous equations using substitution			
			U137	Constructing and solving simultaneous equations			
19	43	Inequalities	U509	Reading and drawing inequalities on number lines			
			U759	Solving single inequalities			
			U738	Solving inequalities with the variable on both sides			
			U337	Constructing and solving inequalities			
			U145	Solving double inequalities			
7	15	Fractions and mixed numbers + - x ÷	U692	Converting between mixed numbers and improper fractions			
			U736	Adding and subtracting fractions			
			U793	Adding and subtracting mixed numbers			
			U475	Multiplying fractions			
			U224	Multiplying with mixed numbers			
			U544	Dividing fractions			
			U538	Dividing with mixed numbers			
8	17	Ordering fractions, decimals and percentages	U888	Converting between fractions, decimals and percentages			
			U594	Ordering fractions, decimals and percentages			
32	75	Fractions and percentages of amounts	U881	Finding fractions of amounts without a calculator			
			U916	Finding fractions of amounts with a calculator			
			U554	Finding percentages of amounts without a calculator			
			U349	Finding percentages of amounts with a calculator			
			U554	Finding percentages of amounts without a calculator (Note: Using 10% and 1%, and unitary method used in videos)			
			U349	Finding percentages of amounts with a calculator			
33	77	Percentage change	U773	Percentage change without a calculator			
			U671	Percentage change with a calculator			
			U286	Finding original values in percentage calculations			
			U278	Finding the percentage an amount has been changed by			
			U533	Simple interest calculations			
			U332	Compound interest calculations			
			U988	Growth and decay			
			U687	Writing and simplifying ratios			
28 29	65 67	Ratio	U577	Sharing amounts in a given ratio			
			U753	Using equivalent ratios to find unknown amounts			
			U921	Combining ratios			
			U676	Calculating with ratios and algebra			
			U865	Changing ratios			
			U176	Converting between ratios, fractions and percentages			

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			U176	Converting between ratios, fractions and percentages			
			U676	Calculating ratios and algebra			
			U865	Changing ratio			
30 31	69 71	Problems involving proportion, direct and inverse	U721	Solving direct proportion word problems			
			U357	Solving inverse proportion word problems			
			U610	Currency conversion			
			U640	Interpreting direct proportion equations			
			U364	Interpreting inverse proportion equations			
			U238	Graphs of direct and inverse proportion			
		Financial maths	U256	Calculating with rates			
			U610	Currency conversion			
26	59	Speed, distance, time	U902	Reading, converting and calculating with time			
			U914	Interpreting distance-time graphs			
			U403	Plotting distance-time graphs			
			U462	Calculating speed from distance-time graphs			
			U966	Plotting distance-time graphs using speeds			
36	83	Compound measures	U151	Calculating with speed			
			U256	Calculating with rates			
			U910	Calculating with density			
			U527	Calculating with pressure			
			U842	Mixed problems: Calculating density and pressure			
21 22 23	49 51 53	Graphs and Coordinates	U789	Reading and plotting coordinates			
			U933	Calculating midpoints			
			U889	Solving shape problems involving coordinates			
			U741	Plotting straight line graphs			
			U315	Finding equations of straight line graphs			
			U669	Interpreting equations of straight line graphs			
			U477	Finding the equation of a straight line from its gradient and a point			
			U848	Finding the equation of a straight line from two points on the line			
			U377	Equations of parallel lines			
53 54 55 56	127 129 131 133	Probabilities	U280	Frequency trees			
			U803	Using probability phrases			
			U408	Writing probabilities as fractions			
			U510	Writing probabilities as fractions, decimals and percentages			
			U683	Probabilities of mutually exclusive events			
			U166	Expected results from repeated experiments			
			U104	Sample space diagrams			
			U476	Venn diagrams			
			U748	Venn diagrams with set notation			
			U296	Using set notation			
			U558	Tree diagrams for independent events			
			U729	Tree diagrams for dependent events			
			U580	Experimental probabilities			