

KO	KR	Topic	Sparx Code	Title	Covered	RAG	Revisit
3	5	Prime factorisation, including using to find HCF and LCM	U739	Prime factor decomposition (Note: tree method used)			
			U751	Finding the lowest common multiple (LCM)			
			U529	Finding the highest common factor (HCF)			
			U250	Finding the HCF and LCM using prime factor decomposition			
8	15	Standard form	U330	Using standard form with positive indices			
			U534	Using standard form with negative indices			
			U264	Multiplying and dividing numbers in standard form			
			U290	Adding and subtracting numbers in standard form			
			U161	Standard form with a calculator			
			U851	Calculating with roots and powers			
			U235	Index rules with positive indices			
9	19	Calculations involving roots, and integer indices	U694	Index rules with negative indices			
			U985	Indices of the form $1/a$			
			U772	Indices of the form a/b			
		Fractional indices					
11	23	Calculate with surds, simplify, rationalise denominators	U662	Simplifying expressions using index laws			
			U338	Simplifying surds			
			U299	Estimating roots and powers			
			U633	Multiplying and dividing surds			
			U338	Simplifying surds			
			U499	Expanding brackets with surds			
			U707	Rationalising denominators containing a single term			
6	11	Change recurring decimals into fractions	U281	Rationalising denominators containing two terms			
			U550	Converting fractions to recurring decimals			
9	19	Algebraic Notation; distinguish between the terms: expression, equation, formula, inequality	U689	Converting recurring decimals to fractions			
9	19	Algebraic Notation; distinguish between the terms: expression, equation, formula, inequality	U613	Using algebraic notation			
10	21	Factorise expressions by taking out common factors	U365	Factorising into one bracket			
11	23	Linear equations	U325	Solving equations with two or more steps			
			U505	Solving equations with the variable in the denominator			
			U599	Constructing and solving equations			
			U870	Solving equations with the variable on both sides			
13	29	Factorise quadratic expressions of the form $ax^2 + bx + c$ (including difference of two squares)	U178	Factorising quadratic expressions of the form x^2+bx+c			
			U963	Factorising the difference of two squares			
			U858	Factorising quadratic expressions of the form ax^2+bx+c			
15	33	Algebraic fractions	U103	Simplifying algebraic fractions by cancelling common factors			
			U437	Simplifying algebraic fractions by factorising into one bracket			
			U294	Simplifying algebraic fractions by factorising into two brackets			
			U685	Adding and subtracting algebraic fractions			
			U457	Multiplying algebraic fractions			
			U824	Dividing algebraic fractions			
		Expand triple bracket	U606	Expanding triple brackets			

Half Term 2

KO	KR	Topic	Sparx Code	Title	Covered	RAG	Revisit
59	141	Mean, median, mode - measures of central tendency	U569	Finding averages from frequency tables			
			U877	Estimating the averages from grouped data			
58	139	Range - measures of spread; consideration of outliers	U526	Calculating the range			
			U717	Choosing suitable averages and solving problems			
60	143	Cumulative frequency graphs	U182	Drawing cumulative frequency graphs			
			U642	Interpreting cumulative frequency graphs			
58	139	Box plots	U879	Drawing box plots			
			U837	Interpreting box plots			
61	145	Scatter graphs, correlation, line of best fit Lines of best fit to interpolate and extrapolate	U199	Plotting scatter graphs			
			U277	Interpreting scatter graphs			
47	113	Pythagoras theorem including calculating distance between points	U385	Using Pythagoras' theorem in 2D			
48	115	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			
			U967	Angles of elevation and depression			
49	117	Exact values for $\sin\theta$ $\cos\theta$ $\tan\theta$ ($\theta=0,30,45,60,90$)	U627	Using the exact values of trigonometric ratios			
			U541	Using Pythagoras' theorem in 3D			
51	121	Apply Pythagoras, including 3D Apply trigonometry, including 3D	U170	Trigonometry In 3D shapes			
16	35	nth term linear (arithmetic) sequence	U498	Position-to-term rules for arithmetic sequences			
			U530	Substituting into position-to-term rules			
			U680	Special sequences			
			U958	Position-to-term rules for geometric sequences			
18	41	Sequences from recurrence relations	U206	Position-to-term rules for quadratic sequences			
			U171	Using recurrence relations			

KO	KR	Topic	Sparx Code	Title	Covered	RAG	Revisit
41	97	Calculate area of triangle, parallelogram, trapezia	U990	Finding the area of compound shapes			
			U226 U934	Problem solving: Area and perimeter of rectangles and compound shapes			
			U945	Finding the area of triangles			
			U575	Finding the area of compound shapes containing triangles			
			U424	Finding the area of parallelograms			
			U265	Finding the area of trapeziums			
			U343 U904	Problem solving: Area of triangles, parallelograms and trapeziums			
50		Area of a triangle = $\frac{1}{2}ab\sin C$	U592	The area rule			
41	99	Circumference and area of circle	U767	Identifying parts of circles			
			U604	Finding the circumference of circles			
			U950	Finding the area of circles			
		Arc length & area of sectors	U221 U373	Finding the arc length of sectors Finding the area of sectors			
42	103	Volume of 3D shapes	U786	Finding the volume of cubes and cuboids			
			U174	Finding the volume of prisms			
			U915	Finding the volume of cylinders			
			U484	Finding the volume of pyramids			
			U116	Finding the volume of cones			
			U617	Finding the volume of spheres			
			U426	Mixed problems: Finding the volume of cones and spheres			
43	103	Surface area of 3D shapes	U350	Finding the volume of frustrums			
			U543	Finding the volume of composite shapes			
			U929	Finding the surface area of cubes and cuboids			
			U259	Finding the surface area of prisms			
			U871	Finding the surface area of pyramids			
			U142	Mixed problems: Finding the surface area of cuboids, prisms and pyramids			
			U464	Finding the surface area of cylinders			
			U523	Finding the surface area of cones			
			U893	Finding the surface area of spheres			
			U771	Mixed problems: Finding the surface area of cones and spheres			
11	43	Review linear equations	U334	Finding the surface area of frustrums			
			U561	Finding the surface area of composite shapes			
			U325	Solving equations with two or more steps			
			U505	Solving equations with the variable in the denominator			
12		Rearrangement of formulae	U599	Constructing and solving equations			
			U870	Solving equations with the variable on both sides			
			U556	Changing the subjects of formulae			
17	53	Inequalities	U509	Reading and drawing inequalities on number lines			
			U759	Solving single inequalities			
			U738	Solving inequalities with variables on both sides			
			U145	Solving double inequalities			
			U337	Constructing and solving inequalities			
19	69	Simultaneous equations	U760	Solving simultaneous equations using elimination			
			U836	Solving simultaneous equations graphically			

Half Term 4

KO	KR	Topic	Sparx Code	Title	Covered	RAG	Revisit
33		Percentage change	U773	Percentage change without a calculator			
			U671	Percentage change with a calculator			
34	77	Simple and compound interest/depreciation	U533	Simple interest calculations			
			U332	Compound interest calculations			
			U988	Growth and decay			
		Worded problems involving percentages, including reverse percentages	U278	Finding the percentage an amount has been changed by			
30	73	Ratio	U286	Finding original values in percentage calculations			
			U577 U595	Sharing in amounts in a given ratio			
			U753	Using equivalent ratios to find unknown amounts			
			U921	Combining ratios			
			U176	Converting between ratios, fractions and percentages			
35	64 89	Best buys	U676	Calculating ratios and algebra			
			U865	Changing ratio			
			U721	Solving direct proportion word problems			
			U151	Calculating with speed			
			U910	Calculating with density			
7	31	Upper and lower bounds, error intervals, rounding and truncation	U527	Calculating with pressure			
			U842	Mixed problems: Calculating pressure and density			
			U610	Currency conversion			
			U657	Finding error intervals			
			U587	Finding error intervals for calculations			
22 23 24	57 59 61	Straight line graphs	U108	Truncating decimals			
			U301	Finding error intervals for truncated numbers			
			U741	Plotting straight line graphs			
			U315	Finding equations of straight line graphs			
			U669	Interpreting equations of straight line graphs			
29	67	Distance/time graphs	U477	Finding the equation of a straight line from it's gradient and a point			
			U848	Finding the equation of a straight line from two points on the line			
			U377	Equations of parallel lines			
			U898	Equations of parallel and perpendicular lines			
			U403	Plotting distance-time graphs			
17	53	Real life graphs	U914	Interpreting distance-time graphs			
			U462	Calculating speed from distance-time graphs			
			U966	Plotting distance-time graphs using speed			
			U937	Plotting velocity time graphs			
			U562	Calculating acceleration from velocity time graphs			
19	69	Simultaneous equations	U611	Calculating distances from velocity time graphs			
			U652	Plotting linear real life graphs			
			U638	Using and interpreting linear real life graphs			
17	53	Inequalities	U862	Finding equations of linear real life graphs			
			U896	Sketch graphs of water flows			

Summer term Year 10
Higher
Half Term 5 & 6

Name: _____

KO	KR	Topic	Sparx Code	Title	Covered	RAG	Revisit
56	133	Tree diagrams	U558	Tree diagrams for independent events			
			U729	Tree diagrams for dependent events			
54	129	Relative frequency and expectation	U580	Experimental probabilities			
			U166	Expected results from repeated experiments			
		Listing outcomes	U104	Sample space diagrams			
		Product rule for counting	U369	Using the product rule for counting			
14	31	Solving quadratics by factorising	U228	Factorising to solve quadratic equations of the form $x^2+bx+c=0$			
			U960	Factorising to solve quadratic equations of the form $ax^2+bx+c=0$			
		Solving quadratics which don't factorise	U589	Solving quadratic equations by completing the square			
			U665	Solving quadratic equations using the quadratic formula			
			U150	Constructing and solving quadratic equations			
25	57	Graphs of quadratics	U989	Plotting graphs of quadratic functions			
			U667	Interpreting graphs of quadratic functions			
			U769	Finding the turning point of a quadratic graph by completing the square			
44 45	105 107 109	Constructions and Loci	U245	Constructing perpendicular bisectors and lines			
			U787	Constructing bisectors of angles			
			U979	Mixed problems: Constructing bisectors and perpendicular lines			
			U187	Constructing triangles			
			U820	Constructing loci			
40	95	Transformations	U196	Translation			
			U799	Reflection			
			U696	Rotation			
			U519	Enlargement by a positive scale factor			
			U134	Enlargement by a positive or negative scale factor			
			U766	Combining transformations			
			U632	Understanding column vectors			