

Year 9 Maths Higher tier EoY Exam Revision List

Dear Parents and Carers,

Find attached the revision lists for your son's end of year exams. I have included the clip numbers for Sparx Maths. Your son needs to go through each list and RAG rate the topics to help him identify the priority areas for his revision. If you have any questions, please email me at msegbafah@ernestbevin.london or contact your son's Maths teacher.

This revision list as a **guide** and is not an exhaustive list of every question on the test, but covers all of the key skills needed for the test. Your son should do the following below;

RAG each topic and start with his **RED** ones. **Watch** the videos and complete the **quizzes**.

Re-watch the video if necessary and complete a '**building block**' to gain confidence.

Use link <https://support.sparx.co.uk/docs/independent-learning> to guide his Sparx independent revision.

Strand	Topic	Sparx Code	RAG
Number	Index rules with positive and negative indices	U235, U694	
	Using standard form operations including calculations with positive and negative indices	U330,U534,U264,U290,U161	
	Estimation, Rounding integers and decimals using significant figures	U298,U731,U965	
	Finding error intervals,Truncating decimals,Finding error intervals for truncated numbers	U225,U657,U108,U301	
	Fractions and its applications	U679,U163,U704,U646,U746,U736,U696,U439,U475,U544	
	Fractions, decimals and percentages applications and operations	U874,U888,U594,U925,U881,U916,U554,U349,U773,U671	
	Finding the percentage an amount has been changed	U278	
	Finding factors and using divisibility tests	U211	
	Estimating roots and powers	U299	
	Indices of the form $\frac{1}{a}$	U985,U772	
	Finding bounds for calculations	U587	
	Converting fractions to recurring decimals and vice versa	U550,U689	
	Operations on surds	U872,U633,U338	
	Prime factor decomposition, Finding the lowest common multiple (LCM) and the highest common factor (HCF)	U751, U529, U236, U739,U250	
Algebra	Substituting into algebraic formulae and real-life formulae	U585,U144	
	Simplifying expressions by collecting like terms	U105	
	Simplifying expressions using index laws	U662	
	Expanding single and double brackets	U179,U768	
	Factorising into one bracket	U365	
	Factorising quadratic expressions of the form x^2+bx+c	U178	
	Factorising the difference of two squares	U963	
	Simplifying algebraic fractions by cancelling common factors	U103	
	Changing the subjects of formulae	U556	
	Solving equations of different types	U755,U325,U870,U505,U599	
	Inequalities	U509,U759	
	Constructing and solving simultaneous equations	U137	
	Graphs of quadratic, cubic and reciprocal functions	u989,U667,U980,U593	
Plotting linear real-life graphs	U652		

	Using and interpreting linear real-life graphs	U638	
	Finding equations of linear real-life graphs	U862	
	Reading, converting and calculating with time	U902	
	Expanding brackets with surds	U499	
	Rationalising denominators containing a single and two terms	U707,U281	
	Expanding triple brackets,Completing the square	U606,U397	
	Simplifying algebraic fractions by factorising into one and two brackets	U437,U294	
	Operations on algebraic fractions	U685,U457,U824	
	Factorising to solve quadratic equations of the form $ax^2+bx+c=0$	U960	
	Solving quadratic equations using the quadratic formula and by completing the square	U665,U589	
	Constructing and solving quadratic equations	U150	
	Estimating areas under non-linear graphs	U882	
	Equations of circles and tangents	U567	
	Constructing direct and inverse proportion equations	U407,U138	
Ratio, Proportion, Rates of Change and Geometry	Converting units of length, mass and capacity	U388	
	Converting units of area and volume	U248,U468	
	Problem solving: Converting units of length, area and volume	U663	
	Converting between ratios, fractions and percentages	U176	
	Mixed problems: Finding the area and perimeter of simple shapes	U993	
	Finding the area of triangles,area of compound shapes containing triangles, parallelograms and trapeziums	U945,U970,U575,U424,U265	
	Angles on a line ,about a point, in triangles,quadrilaterals and parallel lines	U390,U628,U732,U826	
	Angles in polygons	U427	
	Finding unknown angles in right-angled triangles	U545	
	Angles of elevation and depression	U967	
	Calculating with trigonometry and bearings	U164	
	Mixed problems: Understanding similarity and congruence	U790, U112,U866	
	Finding the area of circles, sectors	U950, U373	
	Plans and elevations	U743	
	Finding the surface area of cylinders,cones,spheres	U464,U523,U893	
	Mixed problems: Finding the volume of cones and spheres	U426	
	Understanding column vectors,Adding and subtracting column vectors,Multiplying column vectors by a scalar	U632,U903,U564	
	Translation,Reflection	U196,U799.U766	
	Constructing triangles, bisectors of angles	U187, U787	
	Mixed problems: Loci, Constructing bisectors and perpendicular lines	U820, U245,U979	
	Measuring and drawing bearings,Calculating bearings	U525,U107,U887	
	Problem solving: Area and perimeter of rectangles and compound shapes (Higher)	U934	
	Problem solving: Area of triangles, parallelograms and trapeziums (Higher)	U904	
	The area rule	U592	

	Finding the perimeter and area of similar shapes	U630	
	Finding the surface area and volume of similar shapes	U110	
	Enlargement by a positive or negative scale factor	U134	
Probability and Statistics	Writing probabilities as fractions, decimals and percentages	U408,U510	
	Presenting data and making conclusions	U571	
	Conditional probabilities from tables and Venn diagrams	U246,U699	
	Using the conditional probability formula and from tree diagrams	U821,U806	

Useful Websites

www.mathsgenie.co.uk

www.corbettmaths.com

www.sparxmaths.com