

Higher Skills Revision List

Use this as a working document to assess your understanding of the topics. RAG your confidence and understanding of the topics before you start. Choose a variety of topics to revise and then update the RAG sheet regularly so you can keep track of the subjects you want to prioritise. Remember - don't work for too long in one session, use a variety of revision strategies to keep your revision interesting. Get plenty of sleep! A tired brain will struggle to retain anything!

Number

[Sparx Website](#)

	Topics	Topic code	RAG
N1	Fractions	U224, U538, U793	
N2	Factors, multiples and primes	U739, U250	
N3	Percentage change	U671, U332, U988	
N4	Standard form	U330, U534, U264, U290	
N5	Calculating with roots and fractional indices	U851, U985, U772, U299	
N6	Converting recurring decimals to fractions	U689	
N7	Surds	U338, U663, U872, U499	
N8	Rationalising the denominator	U707, U281	
N9	Error intervals	U657, U301, U587	

Algebra

	Topics	Hegarty Number	RAG
A1	Linear equations	U325, U870, U599	
A2	Linear inequalities	U759, U738, U145, U337	
A3	Index laws	U662	
A4	Linear simultaneous equations	U760, U757, U836, U137	
A5	Linear graphs and coordinates	U315, U669, U477, U848, U377	
A6	Quadratic graphs and equations	U989, U667, U228, U601	
A7	Expanding triple brackets	U606	
A8	Operations with algebraic fractions	U685, U457, U824	
A9	Factorising quadratic expressions: ax^2+bx+c	U858	
A10	Simplifying algebraic fractions	U294	
A11	Factorising to solve quadratics equations	U228, U960	
A12	Using the quadratic formula	U665	
A13	Completing the square to solve quadratics	U397, U589	
A14	Quadratic equations in context	U150	
A15	Quadratic simultaneous equations	U547	
A16	Index laws	U235, U694, U662	
A17	Equation of a straight line: Perpendicular lines	U898	
A18	Quadratic graphs: Turning points	U769	
A19	Quadratic simultaneous equations on graphs	U875	
A20	Exponential graphs	U229	
A21	Exponential growth and decay problems	U988	

A22	Trigonometric graphs	U450	
A23	Graph transformations	U598, U487, U455	
A24	Velocity-time graphs	U937, U562, U611	
A25	Rate of change graphs	U638, U652, U862	
A26	Estimating gradient from a curve	U800	
A27	Estimating area under a curve	U882	
A28	Equation of a circles and tangents	U567	
A29	Linear inequalities as graph regions	U747	
A30	Quadratic inequalities	U133	
A31	Functions	U637, U895, U448, U996	
A32	Recurrence relations	U171	
A33	Quadratic sequences	U206	
A34	Iteration and numerical methods	U434, U168	
A35	Algebraic proof	U582	

Geometry and measures

	Topics	Hegarty Number	RAG
G1	Area	U226, U343, U950	
G2	Volume	U786, U174, U915	
G3	Angles	U655, U826, U329, U427	
G4	Pythagoras' theorem	U385	
G5	Trigonometry	U605, U283, U545	
G6	Transformations	U196, U799, U696, U519, U766	
G7	Congruence proofs	U866, U887	
G8	Enlargements	U134	
G9	Describe combined transformations	U766	
G10	Circle theorems: Angles inside a circle	U459, U251	
G11	Circle theorems: Tangents and chords	U489, U130	
G12	Circle theorems problems	U808	
G13	Prove circle theorems	U807	
G14	Volume of frustums	U350	
G15	Volume: Problem solving	U543, U426	
G16	Similar Shapes: Area and volume	U630, U110	
G17	Pythagoras' Theorem in 2D and 3D	U385, U541	
G18	Right-angled trigonometry: Problem solving	U319, U283, U545, U967	
G19	3D trigonometry	U170	
G20	The area rule	U592	
G21	Sine rule	U952	
G22	Cosine rule	U591	
G23	Trigonometry and bearings	U164	
G24	Vectors problems	U781, U560	

Ratio, proportion and rates of change

	Topics	Hegarty Number	RAG
R1	Ratio	U687, U753, U176, U577, U921, U865	
R2	Speed	U151	
R3	Density and pressure	U910, U527	
R4	Proportion	U721, U357, U610	
R5	Algebraic direct and inverse proportion	U407, U138	
R6	Compound units: Density problem solving	U910	

Probability

	Topics	Hegarty Number	RAG
P1	Calculating probabilities	U408, U510, U683, U580	
P2	Expected outcomes	U166	
P3	Tree diagrams	U558, U729	
P4	Set notation	U748, U296	
P5	Product rule for counting	U369	
P6	Conditional probability	U246, U821, U806	
P7	Probability from Venn diagrams	U476, U748, U699	

Statistics

	Topics	Hegarty Number	RAG
S1	Averages	U717, U569, U877	
S2	Averages with grouped data	U877	
S3	Sampling	U162	
S4	Scatter graphs	U199, U277, U128	
S5	Frequency polygons	U840	
S6	Cumulative frequency diagrams	U182, U642	
S7	Box plots	U879, U837, U507	
S8	Frequency polygons	U840	
S9	Histograms	U814, U983, U267	