Sparx Maths

GCSE Maths Revision List

Below are a list of Sparx codes split by topic and skill to focus your revision for the Maths GCSE.

Use the Independent learning section in Sparx, enter the code, grab paper and a pen then **DO SOME MATHS** 😊

Week 1:

Number		R	A	G
Fractions	U224, U538			
Simple interest	U533			
Estimating answers	U225			
Value for money	M681			
Percentage change	U671, U332, U988			
Standard form	U330, U534, U264, U290			
Calculating with roots and fractional indices	U851, U985, U772, U299			
Surds	U338, U663, U872, U499			
Rationalising the denominator	U707, U281			
Error intervals	U657, U301, U587			

Week 2:

Algebra				
Topic	**Topic code**	**R**	**A**	**G**
Expanding triple brackets	U606			
Operations with algebraic fractions	U685, U457, U824			
Factorising quadratic expressions: ax^2+bx+c	U858			
Simplifying algebraic fractions	U294			
Factorising to solve quadratics equations	U228, U960			
Using the quadratic formula	U665			
Completing the square to solve quadratics	U397, U589			
Quadratic equations in context	U150			
Quadratic simultaneous equations	U547			
Index laws	U235, U694, U662			

Week 3:

Ratio and proportion				
Topic	**Topic code**	**R**	**A**	**G**
Ratio	U176, U577, U921, U865			
Speed	U151			
Density and pressure	U910, U527			
Algebraic direct and inverse proportion	U407, U138			
Compound units: Density problem solving	U910			

Geometry				
Topic	**Topic code**	**R**	**A**	**G**
Congruence proofs	U866, U887			
Enlargements	U134			
Describe combined transformations	U766			
Circle theorems: Angles inside a circle	U459, U251			
Circle theorems: Tangents and chords	U489, U130			
Circle theorems problems	U808			
Prove circle theorems	U807			
Volume of frustums	U350			
Volume: Problem solving	U543, U426			

Week 4:

Algebra				
Topic	**Topic code**	**R**	**A**	**G**
Equation of a straight line: Perpendicular lines	U898			
Quadratic graphs: Turning points	U769			
Quadratic simultaneous equations on graphs	U875			
Exponential graphs	U229			
Exponential growth and decay problems	U988			
Trigonometric graphs	U450			
Graph transformations	U598, U487, U455			
Velocity-time graphs	U937, U562, U611			
Rate of change graphs	U638, U652, U862			

Week 5:

Probability				
Topic	**Topic code**	**R**	**A**	**G**
Calculating probabilities	U408, U510, U683, U580			
Tree diagrams	U558, U729			
Set notation	U748, U296			
Product rule for counting	U369			
Conditional probability	U246, U821, U806			
Probability from Venn diagrams	U476, U748, U699			

Week 6:

Algebra				
Topic	**Topic code**	**R**	**A**	**G**
Estimating gradient from a curve	U800			
Estimating area under a curve	U882			
Equation of a circles and tangents	U567			
Linear inequalities as graph regions	U747			
Quadratic inequalities	U133			
Functions	U637, U895, U448, U996			
Recurrence relations	U171			
Quadratic sequences	U206			
Iteration and numerical methods	U434, U168			
Algebraic proof	U582			

Week 7:

Geometry				
Topic	**Topic code**	**R**	**A**	**G**
Similar Shapes: Area and volume	U630, U110			

		R	A	G
Pythagoras' Theorem in 2D and 3D	U385, U541			
Right-angled trigonometry: Problem solving	U319, U283, U545, U967			
3D trigonometry	U170			
The area rule	U592			
Sine rule	U952			
Cosine rule	U591			
Trigonometry and bearings	U525, U107, U164			
Vectors problems	U781, U560			

Week 8:

Statistics				
Topic	**Topic code**	**R**	**A**	**G**
Averages	U877, U717			
Pie charts	U508, U172			
Sampling	U162			
Two-way tables	U981			
Cumulative frequency diagrams	U182, U642			
Box plots	U879, U837, U507			
Frequency polygons	U840			
Histograms	U814, U983, U267			
Capture-recapture	U328			