

Yr 10 Foundation Revision list 2025 Bold more demanding Grade 4 <u>Underlined Grade 5</u>		Sparx Code	R	A	G
Pythagoras	Calculate lengths of sides using Pythagoras' theorem, including on a grid	U385			
	To determine if a triangle has a right angle	U385			
Congruency, Similarity and enlargement	Enlargement using scale factors	U519			
	Explain the difference with Congruence and Similar shapes	U790, U551			
	Find missing sides and angles in similar shapes	U578			
	Use parallel lines to work out angles	U628			
	To solve similar shape problems	U112			
Trigonometry	To know adjacent, opposite and hypotenuse sides in a right-angled triangle	U605			
	Use Sine, Cosine and Tangent ratio to find missing angles	U545			
	Use Sine, Cosine and Tangent ratio to find missing sides	U283			
	To know and use exact trigonometric values	U627			
Equations and inequalities	Form and solve one step and two step equations	U755, U325			
	To represent inequalities on a number line	U509			
	To solve inequalities	U759, U145			
	To draw straight line graphs	U789			
	To find solutions to equations on straight line graphs	U315			
	To form and solve equations and inequalities with unknowns on both sides	U870 U738			
Simultaneous equations	To solve linear simultaneous equations by substitution	U757			
	To solve linear simultaneous equations by addition and subtraction	U670			
	To form simultaneous equations from given information	U137			
Expanding and factorising	To expand and factorise with a single bracket	U179, U365			
	To expand binomials	U768			
	To factorise quadratic expressions	U178			
	Forming and solving equations	U599			
Area and Circles	To calculate area of shapes including compound shapes	U993, U970			
	To calculate area of a circle and circumference of a circle	U604, U950			
	To find volume of 3d shapes including a cylinder	U915, U116			
	To find volume of a sphere and a cone	U617			
	To calculate surface area of 3d shapes including a cylinder and a cone	U142, U464			
Vectors	To understand and use vector notation	U632			
	To draw and understand addition and subtraction of vectors	U903			
	To draw and understand multiplication of vectors by a scalar	U564			
Percentages	Convert fractions decimals and percentages	U888, U594			
	To work out percentages of amounts	U554, U349			
	Increase and decrease by a given percentage	U773, U671			
	Express one number as a percentage of another	U925			
	Calculate simple interest and compound interest	U533, U332			
	Find the original amount after a percentage change	U278			
	Solve problems with growth and decay	U988			
Indices and standard form	To know and use roots and powers	U581			
	To use the addition and subtraction rules for indices	U235			
	To work with powers of powers	U235			
	To calculate with numbers in standard form	U330,U534			
Ratio and fractions	Solve problems with percentages ratios and fractions	U176			
	Compare quantities using a ratio	U573			
	Share amounts in a given ratio	U557			
	To use ratio in the 1:n form	M543			
	Solve problems with ratio and scales	U257			
	Solve problems with currency conversion	U610			
	Combine a set of ratios	U921			
	Link ratio and algebra	U676			
	To solve best buy problems	M681			
Number and Sequences	To find product of prime numbers	U739			
	To find HCF and LCM, including use of a Venn diagram	U250			
	To describe different types of sequences including arithmetic and geometric	U489, U958			
	To find nth term of linear sequences	U498			

Yr 10 Higher Revision list 2025 Bold more demanding Grade 6 Underlined Grade 7+		Sparx Code	R	A	G
Pythagoras	Calculate lengths of sides using Pythagoras' theorem, including on a grid	U385			
	To determine if a triangle has a right angle, explore proofs of Pythagoras	U385			
	<u>To use Pythagoras in 3D</u>	U541			
	Enlargement using scale factors, including fractional and negative	U519, U134			
Similarity, Congruency, and enlargement	Explain the difference with Congruence and Similar shapes	U112, U551			
	To solve similar shape problems including finding area and volumes	U886, U630			
	<u>To prove a pair of triangles are congruent</u>	U866			
Trigonometry	Use Sine, Cosine and Tangent ratio to find missing angles and lengths	U283, U545			
	<u>To use Trigonometry in 3D</u>	U170			
	To know and use exact trig values	U319, U627			
	<u>To use $\frac{1}{2}ab\sin C$ to find area of triangles</u>	U592			
	<u>To use sine rule to find missing sides and angles</u>	U952			
	<u>To use cosine rule to find missing sides and angles</u>	U591			
Equations and inequalities	Form and solve two step equations and inequalities	U325, U337			
	To represent solutions to inequalities on a number line and set notation	U509, U145			
	To draw straight line graphs and find solutions using graphs	U477			
	<u>To represent inequalities on a graph</u>	U747			
	To form and solve equations and inequalities with unknowns on both sides	U870, U738			
	To solve quadratics by factorisation and solve quadratic inequalities	U133,			
Simultaneous equations	To solve linear simultaneous equations by adjusting the equations	U757			
	To solve linear simultaneous equations by addition and subtraction	U760			
	To solve simultaneous equations including quadratics using graphs	U875			
	<u>To solve simultaneous equations including quadratics algebraically</u>	U547			
Expanding and factorising	To expand and factorise with a single bracket	U179			
	To expand binomials and factorise quadratic expressions	U768, U178			
	<u>To solve equations equal to 0</u>	U960			
	<u>To complete the square</u>	U589			
	<u>To solve quadratics using the quadratic formula</u>	U665			
Area and Circles	To calculate area of shapes including compound shapes	U993, U970			
	To find area and circumference of a circle	U604, U950			
	<u>To calculate arc lengths and area of sectors</u>	U221, U373			
	<u>To understand and use the Circle Theorems</u>	U489, U807			
	To find volume of a cylinder and a cone and a sphere	U915, U617			
	To calculate surface area of a cylinder and a cone	U523, U464			
Vectors	To understand addition, subtraction and multiplication of vectors	U903, U564			
	<u>To understand vector journeys</u>	U781			
	<u>To understand parallel vectors, and collinear points</u>	U660			
	<u>Use vectors to construct geometric arguments and proofs</u>	U781			
Percentages	Calculate simple and compound interest	U533, U332			
	Find the original amount after a percentage change	U278			
	<u>Solve problems with repeated percentage change</u>	U332			
	Solve problems with growth and decay	U988			
	<u>Understand iterative processes</u>	U779, U168			
Indices	To use the addition and subtraction rules for indices, and powers of powers	U235			
	<u>To use and understand fractional and negative indices</u>	U985, U772			
	To calculate with numbers in standard form	U264, U290			
Ratio and fractions	Share in a ratio and use ratios in the 1:n form	M543, U595			
	Solve problems with ratio and scales, and currency conversion	U610			
	Solve ratio in area and volume problems	U468			
	Combine a set of ratios	U921			
	<u>Link ratio and algebra</u>	U676			
Number and Sequences	To find HCF and LCM, including use of a Venn diagram	U250			
	To describe different types of sequences, arithmetic and geometric	U489, U958			
	To find nth term of linear sequences	U498			
	<u>To find the nth term for quadratic sequences</u>	U206			
	<u>To describe and continue sequences with surds</u>	U680			

