

Year 11 Foundation Scheme of Work

18F: Fractions, Indices & Standard Form

Learning objectives	Sparx Topic Code
Converting between fractions, decimals and percentages	M958, U888, M264,
Fractions of amounts	M695, M684, U881, U916
Increasing/Decreasing by a fraction	M695, U881
Adding and Subtracting Fractions	M835, M931, U736, U793
Multiplying and Dividing fractions	M157, M197, U475, U224, M110, M265, U544, U538
Finding percentages	M437, U554
Increasing and Decreasing by percentage	M476, U773
Index Form	U851, U235, U694
Laws of indices	1U851, U235, U694
Indices with algebraic expressions	M120, U662
Powers of 10	U330, U534
Converting between standard form and ordinary numbers	U330, U534
Multiplying and dividing in standard form	U264
Adding and Subtracting in standard form	U290
Using a calculator to complete calculations in standard form	U161
Rounding numbers in standard form	U330, U534

19F: Congruence, Similarity & Vectors

Learning objectives	Sparx Topic Code
Similar Polygons	M377, U551, M324, U578
Similar Triangles	61M324, U578
Similar Shapes – Problem Solving	U578
Areas in Similar Shapes	U630, U110
Volumes of Similar Shapes	U110
Congruence	M24, U790
Congruent Triangles	U866
Constructing Triangles	M565, U187
Congruent Triangles – problem solving	U866
Vectors	U632, U564, U781

20F: More Algebra

Learning objectives	Sparx Topic Code
How to Change the subject of formulae with 1 step, 2 steps, negative coefficients, when the unknown is in a denominator and/or on both sides, when there are brackets and more	M184, U566
How to solve equations and straight lines	-
How to plot and recognise cubic, reciprocal and exponential graphs	U980, U593, U229
How to solve simultaneous equations by elimination	M852, U760
How to solve simultaneous equations in contexts	U137
How to solve simultaneous equations using graphs of straight lines	M658, U836