Year 10 Foundation Scheme of Work

14F: Multiplicative Reasoning

Learning objectives	Sparx Topic Code
Converting units of measure - Linear	M772, U388
Converting units of measure – Area and Volume	M728, U248
Metric and Imperial conversions, currency and time	M478, U610, M772, U388, M515, U902
Conversion Graphs	-
Repeated proportional change – Interest & Depreciation	M901, U533, U332, M476, U773, U988
Compound Measures – Speed, Distance and Time	U151
Compound Measures – Mass, Density and Volume	U910
Compound Measures – Pressure, Force and Area	U527
Best Buys	M681, U721, U357, U256

15F: Constructions, Loci & Bearings

Learning objectives	Sparx Topic Code
Bearings	M260, U525, M416, U107
Constructing lines	M196, U678, M239, U245
Constructing angles	M232, U787, U979
Constructing polygons	M565, U187, M196, U678
Loci	M253, U820

16F: Quadratic Equations & Graphs

Learning objectives	Sparx Topic Code
How to expand two single brackets then simplify by collecting like terms, including when the term outside the brackets are both positive and negative	M792, U179
How to expand 'double brackets' involving positive and negative terms.	M960, U768
How to expand complex 'double brackets'	M960, U768
How to expand and simplify double brackets that form the difference of two squares	-
How to expand and simplify trinomials	U606
How to identify quadratic expressions	-
How to factorise quadratic expressions of various complexity, including by 'completing the square'	M100, M908, U365, U178, U963, U858
How to solve quadratic equations by first factorising	U228, U960
How to draw graphs of quadratics from tables of values	U989
How to find roots and, y-intercepts, lines of symmetry and turning points of quadratic graphs	U667

17F: Perimeter, Area & Volume

Learning objectives	Sparx Topic Code
Circumference of a circle	M169, U604
Area of a circle	M231, U950
Arc length	M280, U221
Cylinders	M697, U915
Part cylinders	M697, U915
Cones	U116
Rectangular based pyramid	-
Spheres	U617
Surface area of cylinders	M936, U464
Surface area of cones	U523
Surface area of spheres	U893
Surface area multi-step 589-591	-