

Year 7 Scheme of Work

1H: Number (a)

Learning Objectives	Sparx Topic Codes
Understand the Commutative, Associative and Distributive Laws	M952, M409, M637
Reading and Writing Positive Integers	M704
Four Operations with Positive Integers	M928, M347, M928, M347, M133, M354, M823, M521
Four Operations with Negative Values	M527, M106, U742, M288, M521
Working with Decimal Numbers	M522, M429, M152, M803, M262, M263, M803, M262, M952, M409, M757
Squares, Cubes and Roots	M135
Working with Indices and Index Form	M608, M521
Factors and HCF	M823, M322
Multiples and LCM	M698, M227
Primes and Prime Factorisation	M108

2H: Algebra (a)

Learning Objectives	Sparx Topic Code
Writing algebraic expressions	M813
Identify expressions, equations, identities and formulae	M830
Substitute into simple formulae	M208, M979
Simplify by collecting like terms	M795, M531, M949
Simplify expressions involving multiplication and division	M568
Expanding a single bracket	M237
Expanding multiple single brackets and simplify	M792
Expand double brackets	M960
Expand triple brackets	U606
Find HCF of two or more algebraic terms	M698
Factorise algebraic expressions by removing HCF	M100
Simplify expressions by factorising	M754
Simplify algebraic fractions involving four operations	M336, U457, U824
Simplify algebraic expressions using laws of indices	U662
Forming equations	M957
Solve 1-step equations	M707
Solve 2-step equations	M179, M509, M287, M509
Solve 3-step equations	M509
Solve equations with x on both sides	M554
Solve equations involving algebraic fractions	M509
Set up and solve equations in context	M957
Solve equations with two variables by substitution	M208
Find a pair of integers that have a given sum and product	-
Identify quadratic expressions	-
Factorise quadratic expressions	M908, U178, U858
Simplify algebraic fractions involving quadratics	M754

1H: Number (b)

Learning objectives	Sparx Topic Code
Rounding to 10's, 100's, 1000's	M111
Round decimal numbers	M431
Round to significant figures	M994, M131
Truncation	U108
Estimate complex calculations	M878
Related calculations	M911
Money calculations and problem solving	M429, M803, M152, M262
Financial Maths	M901
Powers of 10	M719
Standard Form	M678, U264, U290, U161, U330, U534
Surds	U338, U299, U633, U872, U499, U707, U281

2H: Algebra (b)

Learning Objectives	Sparx Topic Code
Change the subject of a formula	M184, U556
Rearrange and substitute into formula	M208, M979
Substitution	M417, M327, M208, U585
Substitution with SUVAT equations	M979
Linear sequences	M241, M381
Important Sequences	M981
Fibonacci sequence	M981
Sequences from recurrence relations	U171
Linear sequences (nth term)	M991
Geometric sequences	U958
Quadratic Sequences	M419, M166, U206