

Year 7 Scheme of Work – Age Related Criteria



1H: Number (a)

Learning Objectives	Sparx Topic Codes	ARC
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	=

1H: Number (b)

Learning objectives	Sparx Topic Code	ARC
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 (a)

Learning Objectives	Sparx Topic Code	ARC
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	++

2H: Algebra (b)

Learning Objectives	Sparx Topic Code	ARC
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	++

KEY	
Developing	-
Meeting	=
Exceeding	+ and ++