## Overview of Structure

	Foundation Lowe	er Primary Upper Pr	imary Middle Pri	mary Lowe	r Secondary	Middle Secondary
Algebraic properties of numbers and operations	use associative commutative properties for addition calculations	commutative and distributive properties in multiplication calculations	• know + & - and × & ÷ are inverse operations	knowledge fra of mi properties inv of - and ÷ • li of	link division of actions with ultiplication by verse ink subtraction negatives with ldition of inverse	use properties of surds and exponents
Symbols and Expressions		<ul> <li>identify number particle and describe the general verbally</li> <li>understand both meanings of '='</li> <li>first use of a form (area of rectangle)</li> </ul>	eneral formulas e.g. to cal a sequence of num	culate from verb bers and table • recognis equivalen (collect te	se and make at expressions arms, expand, a, rearrange	<ul> <li>factorise (common factors, binomial factors etc)</li> <li>use exponent laws</li> <li>make equivalent expressions including four operations with simple algebraic fractions</li> </ul>
Functions and graphs	• use column graphs		<ul> <li>use coordinates a line graphs</li> <li>describe verbally relationships betweeveryday life variab and sketch informa</li> </ul>	functions rules and en • model s lles linear and functions link rate	with tables,	identify tables, rules and graphs of linear, quadratic and exponential functions     recognise roles of parameters in function rules     formulate functions for real world modelling
Solving Equations	• constru number	sentences sentences sentences sentences missing nur by observati known facts use tables organise gu check-impro	vith sentences with mis numbers, numbers and simple on or word equations by check-improve and to simple cases with it operations	sing other equinspection same to be tables of	lear and some lations by n, backtracking operations (do booth sides) quations from values; graphs; leck-improve	<ul> <li>solve quadratic, simultaneous linear equations and linear inequalities algebraically &amp; graphically.</li> <li>solve equations of form f(x) = k graphically &amp; by guess-check-improve</li> </ul>
Sets	form sets from descriptions     describe sets	recognise sets     and subsets	<ul> <li>venn diagrams an karnaugh maps sho relation between 2 attributes or 2 sets</li> </ul>	owing sta an no	est validity of atements with ad, or, not, one, some, all bower sets	• express relations between 2, then 3, sets using membership, complement, intersection, union, and subset
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