Overview of Numbers and Operations

	Foundation	Lower Primary	Middle Primary	Upper Primary	Lower Secondary	Middle Secondary
Whole numbers	• 1 to 10 • 0 to 20 • 0 to 100	• 0 to 1000	• 0.01 to 9999	• 0.001 to millions and beyond	• calculate with powers • binary numbers	
Fractions		• unit fractions • equivalent fractions	• x with models link to ratios	• +, -, x ÷		
Decimals		• money amounts	• hundredths +, -	• thousandths +, -, x (2 decimal places	• link with fractions, ratios, %	• calculate in index form • system of real numbers
Integers				• count into negatives	• all operations, with models and as inverses	
Irrationals					• irrationals (pi, square roots etc)	• surd arithmetic
Meanings of addition and subtraction	• combine two sets • change one set (add to or take away from) • compare two sets				• 'compare' important to subtract a negative number	
Meanings of multiplication	• make equal groups • x as repeated addition skip count	• array model • area model		• enlargement and reduction (include numbers <1)	• working with %, rates, ratios	
Meanings of division		• partition • quotition	• inverse of multiplication	• don't divide by zero	• working with %, rates, ratios	
Factors		• skip counting • multiplication tables	• LCM from sets of multiples • square numbers	• factors & factor trees	• factorisation into prime powers • HCF, LCM from prime factors	• HCF from Euclidean algorithm
	Foundation	**Lower Primary**	**Middle Primary**	**Upper Primary**	**Lower Secondary**	**Middle Secondary**