Overview of Numeration: Base Ten and Place Value Properties

	Foundation	Lower Primary	Middle Primary	Upper Primary	Lower Secondary	Middle Secondary
Whole Numbers	• two digit numbers	• three and four digit numbers		• millions and beyond		• scientific notation and exponents
Decimals			• tenths and hundredths		• thousandths and beyond	
Additive properties	• use 10 as a group	• use 10 & 100 as a group in adding	• describe place value of digits	• round including money		
Multiplicative properties			• rename hundreds e.g. 300=30 tens	• rename hundredths to tenths, etc • multiply by 10, 20, 30…	• divide and multiply by powers of 10	• rename e.g.300= 3000 tenths • appreciate exponential growth of numbers as powers of 10 increase
Main Uses		• dollars and cents	• vertical addition and subtraction algorithms	• multiplic'n and division algorithms • percentages	• compare and contrast with binary form	• significant figures and rounding
Metric measurement		• use cm	• use litre, metre, kilogram	• m to cm etc • use g, mm, mL, etc •convert e.g. litres to mL	• recognise base ten significance of metric prefixes (milli, etc) • use wide range of units and conversions	
	Foundation	**Lower Primary**	**Middle Primary**	**Upper Primary**	**Lower Secondary**	**Middle Secondary**