Overview of Working Mathematically

	1.0	2.0	3.0	4.0	5.0	6.0
Problem solving strategies	model problems using materials	use diagrams a	• make lists tables	and • check special	cases • use deduct	ive reasoning
Explaining generalising, conjecturing	identify and extend pa	solutions	dispro d test simple s using langua	counter-examples to ve conjectures municate efficiently mathematical age, symbols and visual entations	 generalise using words and symbols refine conjectures follow simple mathematical deductions 	 informal justification of generalisations follow a formal mathematical argument
Real world situations	identify addition & subtraction situations identify mathematics in everyday life (e.g. numbers, shapes, time, measures)		situations (e.g. sharing, price per kg, simple scale drawing, map reading) mathemat • apprecia		ical models te use of ics in other times	 choose appropriate procedures (e.g. numerical, algebraic or statistical) and function models
Investigations	 display growing independence of posing questions and planning show increasing sophistication of investigation (number of components, complexity of questions, mathematics used) show increasing length, sophistication and precision of reporting (whether verbal, written or other) display greater perception in evaluation of the results 					
Calculators	explore & record number, counting, simple operations	 check calculation 	ers when beyond number sk ons and estimates r patterns and properties	ills • plan multi-step calculations	use graphics calcuscientific notation, esurds, pi CAS for algebra	
Calculators Major other Technology	number, counting,	check calculatio explore numbe vare org	ns and estimates	calculations preadsheets • inv	scientific notation, e surds, pi	geometry software