Science	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Planning an								
enquiry		l suggest an idea to investigate with help. I suggest what might be the 'best' or 'worst'.	I suggest an idea to investigate and ask questions. I suggest what might happen with help.	I suggest an idea to investigate from observations. I suggest what might happen in my investigation.	I identify cause and effect in my investigations. I predict cause and effect (causal prediction).	I plan a fair test by selecting variables to change and measure. I predict a trend (relationship prediction).	I plan a fair test and ensure controlled variables are kept the same. I use K&U to explain my prediction (relationship).	I plan a reliable fair test (use of variable terminology). I reason K&U to make a hypothesis (relationship).
Designing tests								
		I follow short demo and spoken instructions (help). I am aware that factors change in an investigation. I use a range of everyday items to investigate. I work safely when given instructions (some supervision).	I follow short demo, spoken and picture instructions. I begin to identify variables in an investigation. I use a limited range of science equipment correctly (help). I notice risk (help) &can list some common dangers.	I follow short, spoken and written instructions in order. I identify variables in investigations (label & describe). I use a range of science equipment correctly. I notice risk in my investigations & know common dangers.	I follow written instructions and write a simple method. I suggest a suitable data range for a variable. I select suitable equipment for the task. I predict obvious risk & act on safety suggestions.	I design and write a simple ordered method (from plan). I suggest a data range & interval for a variable. I select and use suitable equipment for the task. I predict obvious risk & work safety (mostly).	I design and write an ordered method (controls variables). I suggest a data range, interval and sufficient readings. I select equipment with the correct scale for the task. I begin to plan to minimise risk &work safely (consistently).	I design and write an ordered reliable method (repeats). I plan to collect repeated readings (>3) & calculate mean. I select & use equipment with the correct scale for the task. I plan to minimise risk & describe safe use of equipment.

Gathering and							
recording data	I can position	I can position	I measure labelled	l measure	l measure	I measure divisions	I scale up/down a
	numbers on a	numbers on a	divisions on a	unlabelled	unmarked	on a number line	number line (axis) &
	number track to 20.	number track to	number line (inc. in	divisions on a	divisions on a	past zero (-ve	decide on limits.
		100.	steps).	number line	number line (+ive	values).	I measure/
	I can use non-		l measure	(+ive).	values).	I measure & convert	calculate
	standard units to	l can measure	standard units (inc.	I measure &	I measure &	values in standard	with standard units
	measure and	in non-standard	length, mass,	compare values	convert values in	units (inc. area).	(inc. Area & vol.).
	compare.	units and compare	capacity).	in standard units.	standard units		
		e.g. heavier/lighter			(inc. time).	l use a frame to	l construct a
		can use a simple	I use a simple table	l use a frame to		construct a complex	complex table to
	l use a simple table	table by recording in	recording in words	construct a simple	l construct a	table of results.	show repeated
	by recording in	words and	& numbers (inc.	table of results.	simple table to		data.
	pictures & words.	numbers.	tally).		compare cause &	I use a frame to	
	I use prepared	I use a frame to add	I construct simple	I use a frame to	effect.	construct a graph &	I construct graphs
	pictograms to	to pictograms and	pictograms & block	construct a bar		can scale axes	and can scale at
	record my	block charts.	charts.	chart (help).	I construct bar	(help).	least one axis
	observations.	I add to block charts			charts correctly	I join plotted co-	independently.
		by counting up.	I use the scale on a	l draw bars on	(inc. numerical	ordinates with	plot mean values &
	I add to pictograms		block chart to add	a bar chart (one	axis).	straight lines.	draw a trend line
	by counting up.		the correct blocks.	axis co-ordinate).	I plot co-ordinates		for linear data.
					on a graph in the		
					first quadrant.		

Reporting findings and Evaluating	l recognise, create & describe simple patterns (e.g. size). I begin to use 'more'	I recognise, create & describe simple number patterns. I use 'more' or 'less'	l describe simple features & patterns in data & charts.	l describe simple patterns in data, charts and graphs.	l describe simple patterns trends and relationships in data.	l describe patterns trends & relationships in data.	l describe changing patterns trends & relationships in
	or 'less', etc. to	to compare	I see obvious		I see differences		data.
	compare	numbers.	differences in sets	l see subtle	(error) in	I spot anomalous	I spot anomalous
	observations.		of numbers.	differences in	repeated data.	data that doesn't fit	data & explain
	I talk about changes	I describe the		sets of numbers.	I describe trends	the pattern.	from the method.
	that I observe during	changes that are	I describe the		and begin to use	l use data in my	I use 1*/2* data &
	activities.	happening.	changes that have	l describe my	science to	conclusions & use	science ideas in my
			happened.	results by linking	explain.	science to explain.	conclusions.
				cause and effect.	Suggest sensible		
				Suggest	improvement to		
				improvements to	my method.		
				my work	-		
Topics e.g.							
forces, plants,							
evolution and							
inheritance							
innentance							