



Working Scientifically Progression

	Knowledge and Understanding			Working Scientifically			
	Explaining Science		Classification	Designing Experiments	Data, Tables and Graphs	Making Conclusions	
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Explaining Science	I remember simple facts about science with help	I remember some simple facts about science	I remember relevant science facts with some confidence	I use science ideas & facts to describe & explain	I show a developing K&U of science ideas & concepts	I show a clear K&U of science ideas & concepts	I show a secure K&U across all KS2 topics (facts & concepts)
	I use science words during an activity with help	I use & remember relevant science words during activity	I use & remember science words over time (short term)	I remember science words I have used before (longer term)	I use simple science words correctly (meaning; apply)	I begin to use complex science words correctly	I use complex science words correctly (fluency)
	I describe what is happening using words & actions	I describe what is happening using science with help	I use science to describe / recall what I have seen	I begin to use science models to describe (sequence)	I use science models to describe (what, where)	I use science models to describe & begin to explain (why, how)	I use science models to describe & explain (why, how, logical)
	I use appropriate pictures & words to label items	I add science word labels (help) to diagrams	I add science labels & information (help) to diagrams	I add science labels & information to diagrams	I annotate diagrams to help describe & explain	I begin to draw & annotate my own diagrams	I draw & annotate my own diagrams to describe & explain
	I begin to select facts to use in an answer with help	I select science facts to use in an answer with help	I select relevant science facts to use in an answer	I link relevant facts together in an answer	I 'cluster' related facts together into points (recalled)	I select & prioritise facts to create an argument/answer	I present a clear & logical argument / answer

Classification	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	I sort using instructions or pictures	I sort by using simple yes/no statements	I use simple spider keys with obvious differences	I use large spider keys with obvious differences	I use a range of spider keys with fine differences	I construct spider & use number keys	I construct both spider & number keys
	I group by familiar features (size, colour, shape, etc)	I group by difference or similarity	I group by difference, similarity or change	I create groups for sorting (create criteria)	I create appropriate groups for sorting (create criteria)	I group & sub-group by easily observation (create criteria)	I group & sub-group by fine observation (create criteria)
	I use my senses to identify properties of material	I link properties of materials to an application (help)	I link properties of materials to an application	I combine properties required for an application (help)	I describe combined properties required for an application	I explain how properties suit an application	I explain the science behind a range of properties