Y7	Y8	Y9	Scientific knowledge and understanding	Scientific practical skills and analysis
		9	Demonstrate both breadth and depth of knowledge and understanding of	Research or preliminary practical work used to inform
			organisms, the environment and materials, chemical reactions, energy, forces and	planning/ risk assessment
			space. Demonstrate an understanding of how scientific knowledge and	Quantitative hypothesis written
			understanding changes, through processes such as questioning, investigating and	Hypothesis accepted or rejected in conclusion, with
			evidence gathering.	justification
			Consistently achieves 70% or above on summative assessments of cumulative GCSE	
			content	
	9	8	Demonstrate extensive knowledge and understanding related to organisms, the	Full risk assessment written, including referencing where
			environment and materials, chemical reactions, energy, forces and space. Interpret	appropriate
			and use quantitative evidence.	Quality of data evaluated
			Consistently achieves 70% or above on summative assessments of cumulative KS3	Suggestions for improving quality of data made
			content or 60% GCSE content	
9	8	7	Describe a wide range of processes and phenomena related to organisms, the	Hypothesis explained using scientific knowledge
			environment and materials, chemical reactions, energy, forces and space.;	Equipment choice justified
			including being able to sequence complex processes. Explain how evidence	Line of best fit drawn
			supports accepted scientific ideas.	
			Consistently achieves at least 60% or above on summative assessments of KS3	
			cumulative content or 55% GCSE content	
8	7	6	Describe a range of processes and phenomena related to organisms, the	Graphs scaled and plotted correctly
			environment and materials, chemical reactions, energy, forces and space.; using	How variables will be controlled described
			abstract ideas and appropriate terminology.	Suggestions made for increasing accuracy
			Often achieves more than 60% or above on summative assessments of cumulative	
	-	_	content but is not yet consistent	
7	6	5	Describe processes & phenomena related to organisms, the environment and	Prediction explained using scientific knowledge
			materials, chemical reactions, energy, forces and space. Draw on knowledge and	Control variables identified
			understanding in communication.	Correct units included in tables, independently recalled
			Consistently achieves at least 55% or above on summative assessments of	Data used as evidence in conclusions
	-		cumulative content	
0	Э	4	Describe some processes and phenomena related to organisms, the environment	Appropriate equipment selected
			and materials, chemical reactions, energy, forces and space. Recognise and explain	Hazaros/ risks and precautions identified
			everyday technological developments	Some units included on tables and graphs
			consistently achieves at least 50% or above on summative assessments of	Graphs independently plotted
	A	2	Curricial Content	Cimple predictions made
Э	4	3	Recognise and explain the purpose of a variety of scientific & technological	Simple predictions made
			average and materials, chamical reactions, energy forest and average forest and average forest and average forest average fore	Scanological method written and most equipment listed
			environment and materials, chemical reactions, energy, forces and space.	Tazarus or risks identified
			Often achieves more than 50% or above on summative assessments of cumulative	Table neadings completed independently
			content but is not yet consistent	L'onclusion described

4	3	2	Make independent observations related to organisms, the environment and	Scaffolded predictions made
			materials, chemical reactions, energy, forces and space.	Simple graphs plotted on given axes. Correct units selected.
			Often achieves more than 45% or above on summative assessments of cumulative	Simple improvements to method or equipment identified
			content but is not yet consistent	
3	2	1	Recognise observations related to organisms, the environment and materials,	Data recorded accurately into given tables
			chemical reactions, energy, forces and space.	Some control variables identified
			Often achieves more than 40% or above on summative assessments of cumulative	Simple conclusions stated
			content but is not yet consistent	
2	1		With support, categorise observations related to organisms, the environment and	Lab equipment used safely
			materials, chemical reactions, energy, forces and space.	Measurements read with accuracy
			Often achieves more than 30% or above on summative assessments of cumulative	
			content but is not yet consistent	
1			Recognise features or parts of fundamental scientific objects and ideas related to	Named lab equipment identified correctly or matched to
			organisms, the environment and materials, chemical reactions, energy, forces and	visuals.
			space.	
			Often achieves more than 20% or above on summative assessments of cumulative	
			content but is not yet consistent	