Name:	Marked by:	Date:	
			/ 50
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Assessment Evi	dence Grid - Unit 3: Devel	oping Scientific Skills	
Stage 1	Stage 2	Stage 3	
Skill:	Planning and Following Instruc	tions	Mark
1A.1 carry out a risk assessment, given clear	2A.1 carry out risk assessment, given some	3A.1 independently carry out a risk assessment	
guidelines // 2	guidelines (Given an example row) / 2	(1mark if not complete) / 2	
1A.2 follow instructions, with guidance, in simple standard procedures, one step at a time.	2A.2 follow instructions in standard procedures, with little guidance for the more complex	3A.2 independently follow instructions in standard procedures (complex task)	
/ 2	tasks	procedures (complex task)	
		/1	
	2A.3 select and prepare appropriate laboratory equipment and use it correctly and safely.	3A.3 select and prepare laboratory equipment of appropriate precision and use it correctly	
	/1	and safely. (complex task)	/40
	/ 1	/1	/ 12
Skill:	Obtaining Evidence By Exper	rimenting	
1B.1 make simple observations and measurements	2B.1 make careful and accurate measurements and observations (appropriate d.p. /	3B.1 make careful and accurate measurements and observations consistently	
	descriptive detail)	•	
1B.2 record them in tables and in charts or	/ 1 2B.2 recognise with some guidance when it is	3B.2 independently repeat measurements and	
graphs with guidance.	necessary to repeat measurements and	observations, when necessary	
/2	observations (or reason why not) / 1	/2	
	2B.3 record results accurately in tables (units)	3B.3 independently record and present data in an	
	and graphs where appropriate and using lines of best fit where appropriate.	appropriate form. (hand drawn graph)	
	/2	/1	/ 12
Skill:	Analysing and Considering I	Evidence	
1C.1 carry out simple calculations with guidance	2C.1 (correctly) identify and explain patterns	3C.1 identify (numerical) relationships where	
	within data	appropriate	
1C.2 offer simple explanations for their findings.	/ 1 2C.2 carry out simple calculations (averages,	3C.2 manipulate data using a variety of	
	percentages and substitution into equations)	sophisticated techniques (rearranging equations [method shown] and calculations	
		of reacting quantities and percentage	
/2	/2	yields.) / 2	
	2C.3 draw conclusions which are consistent with	3C.3 draw and present well-structured and	
	the evidence.	accurate conclusions from the data which illustrate an indepth understanding.	
	/1	/1	/ 12
Skill:	Evaluating Evidence	•	
1D.1 give a simple evaluation of their practical	2D.1 give an evaluation of their practical activity	3D.1 review their practical activity by presenting a	
activity.	(how could the results be better)	wellstructured, logical evaluation of its strengths and weaknesses	
/2	/1	/1	
72	2D.2 suggest an improvement to their method	3D.2 describe improvements to their method that	
	that would allow the collection of more reliable data. (ignore 'repeat it' or 'work more	would allow the collection of more reliable evidence. (justification)	
	carefully' without qualification) (no justification or explanation for the	,	
	improvement = max mark 3)		
	/1	/ 2	/7
Skill:	Vocational Application	on	_
1E.1 give a use for this practical activity in a	2E.1 describe how the practical activity is used in	3E.1 explain why the practical activity is useful in	
workplace that uses science. (example and link)	a workplace that uses science.	a workplace that uses science (how are results used and benefits of results)	
/2	/ 2	/2	
		3E.2 give examples of the types of organisation	
	j	that use this type of activity.	Ī

Marks should be awarded hierarchically; for example, all Stage 1 marks must be achieved before any Stage 2 marks can be awarded, and all Stage 2 marks must be achieved before Stage 3 marks can be awarded.