

Summative Task: Specific Features and Assessment in Investigations

Assign the most appropriate Specific Features to be assessed against the Performance Standards in the different sections of the titration investigation.

Trial the assessment of Science Inquiry Skills using tables and grids for a member of another group and reflect upon the benefits of this practice (a non-compulsory component of SACE Chemistry). Consider the relevance of collecting evidence for student collaboration (a compulsory requirement of one investigation in SACE Chemistry) by completing the collaboration section. Complete a reflection on your role as both the student and the teacher in the assessment of student evidence during the investigation and in the construction of a formal practical report.

Assessment

The assigned features, completed checklists, collaboration summary, and reflection on assessment practices are to be submitted at the conclusion of the Intensive.

Learning Intentions

- Assemble a range of subject-appropriate resources, including online, that engage a diversity
 of students in their learning.
- Formulate a range of feedback and assessment strategies, including informal and formal, diagnostic, formative, and summative approaches to assess student learning in the subject area and for various curricula, SACE, AC and IB.
- Demonstrate understanding of assessment, moderation and its application to support consistent and comparable judgements of student learning.

Rubric

Assessment Design	Fail	Pass	Credit	Distinction	High Distinction	Weighting
Criteria	0 < F < 49%	50 < P < 64%	65 < C < 74%	75 < D < 84%	85 < HD < 100%	
Identification of	Allocates	Allocates	Allocates	Allocates	Allocates highly	10%
Assessment Design	appropriate	appropriate	appropriate	appropriate	appropriate	
Criteria –	criteria on limited	criteria on some	criteria on most	criteria on all	criteria on all	
Allocation of	occasions	occasions	occasions	occasions	occasions	
Specific Features						
and Performance						
Standards						
Reflection on	Limited	Some recognition	Considered	Detailed and	Highly detailed	10%
features and	recognition and	and reflection	recognition and	considered	and perceptive	
assessment	reflection		reflection	recognition and	recognition and	
				reflection	critical reflection	
					Result:	20%
Comments:						

Skills Checklist

		Limited evidence	Some evidence	Good evidence	Strong evidence	Exemplary evidence
Skill	Comment	E	D	С	В	А
Selection and use of						
appropriate glassware						
Reading of volumes						
Determination of endpoint						
and concordance						
Safety and organisation of						
the workspace						
Time management						

Student:

Partner:

Volumetric Analysis: Skills Checklist

	-		 -		 -	 	-	-			 		
Standard Solution													
Measurement of mass													
Rinsing													
Pouring/funnel													
Inverting/dissolving													
Reading of meniscus													
Inverting before use													
Spillage													
Pipette													
Rinsing													
Reading of meniscus													
Air bubbles													
Transfer to flask													
Burette													
Rinsed													
Clamped vertically													
Air bubbles													
Funnel													
Below zero													
Titration													
White tile													
Swirling/tap technique													
Rinsing of flask													
Accuracy of end point													
Rough titre													
Spillage													
Errors													

Collaboration

Describe how working collaboratively with your partner during the practical led to greater effectiveness and efficiency.

Reflection