Review of Achievement Standards (RAS) – Science Trial: Interim report

[This report was created on Tuesday 13 February 2020. The consultation had not yet closed when this report was generated. As such, this report may not accurately reflect the final distribution of responses, and should be treated as interim only.] The vast majority of responses are from teachers from State/Integrated secondary schools, with a few from Independent schools etc.

Q.1 The Science Rationale provides enough background information for readers to understand how the Significant Learning was identified by the Subject Expert Group (SEG) for NZC Level 6 / NCEA Level 1 Science.



Q2. The relationship with te ao Māori section makes it clear how Science and mātauranga Pūtaiao are related.



Sector is somewhat polarised over this item – exemplification and clarification needed TF

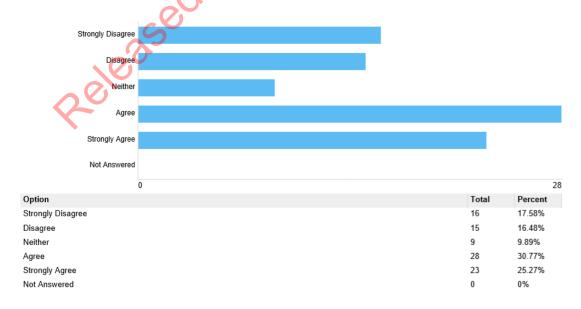
Q3. The introduction to the Learning Matrix explains its structure and how it can be used.



Q4. Big Idea 1 - Investigating in Science reflects a Big Idea of Science at Level 6 of the New Zealand Curriculum.

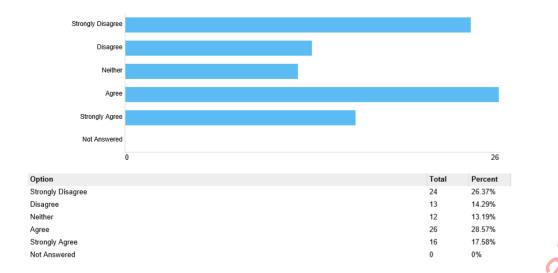


Q5. Big Idea 2 - Use Science to engage in real world issues reflects a Big Idea of Science at Level 6 of the New Zealand Curriculum.



The sector is concerned and unclear with these two less familiar Big Ideas:

Q6. Big Idea 3 - Science as a Human Endeavour reflects a Big Idea of Science at Level 6 of the New Zealand Curriculum.



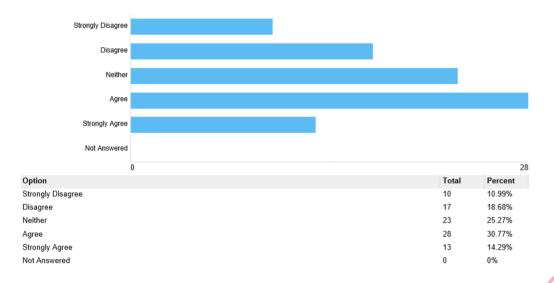
Q7. Big Idea 4 - Communicating in Science reflects a Big Idea of Science at Level 6 of the New Zealand Curriculum.



Q8. The Knowledge Big Ideas from the contextual strands (in the column on the left of the Learning Matrix) reflects the important "content" of Science at Level 6 of the New Zealand Curriculum. This response was expected – around 40% of respondents do not feel the knowledge big ideas capture the content they are familiar with and which is traditionally the basis for their year 11 programmes.



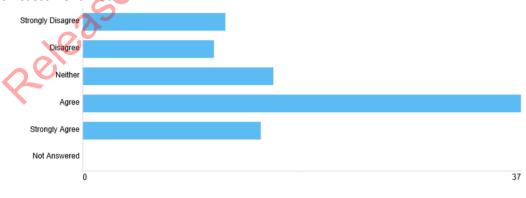
Q9. The language used in each Big Idea is appropriate for Level 6 of the New Zealand Curriculum.



Q10. The Learning Matrix clearly shows connection and alignment with Science at Level 6 of the New Zealand Curriculum (in particular the Learning Area Statement p28-29).

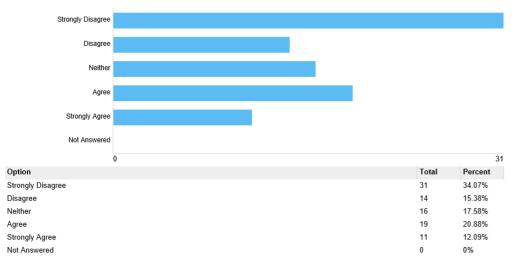


Q12. There is alignment between the Draft NZC Level 6 Science Learning Matrix with the Draft NCEA Level 1 Science Assessment Matrix.



Option	Total	Percent
Strongly Disagree	12	13.19%
Disagree	11	12.09%
Neither	16	17.58%
Agree	37	40.66%
Strongly Agree	15	16.48%
Not Answered	0	0%

Q13. The internal and external modes allocated to each standard are appropriate for the key outcomes in that standard.



The level of agreement here suggests we need to revisit how we frame the external assessments within our 50:50 internal:external mandate.

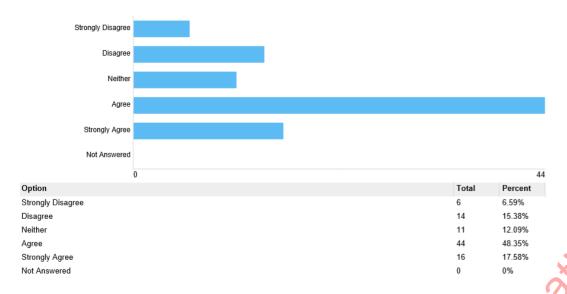
Q14. The Assessment Matrix as a whole assesses the most important learning outcomes for Level 1 Science.



The concerns indicated here need to be addressed. Clarification and exemplification through activities and student exemplars are a key strategy.

Q15 AS 1.1 – Use a range of scientific investigative approaches

The Title provides a general summary of the requirements for this standard.



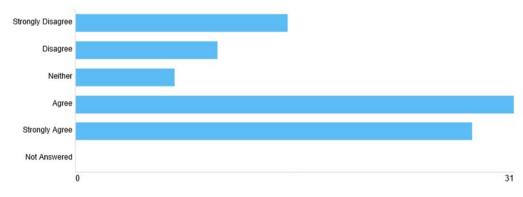
Q16. The Achievement Criteria sufficiently specify the requirements for the award of each grade.



Q17. The Explanatory Notes clarify and explain the standard.



Q18. The Mode of Assessment (internal/external) suggested for this achievement standard is appropriate.



Option	Total	Percent
Strongly Disagree	15	16.48%
Disagree	10	10.99%
Neither	7	7.69%
Agree	31	34.07%
Strongly Agree	28	30.77%
Not Answered	0	0%

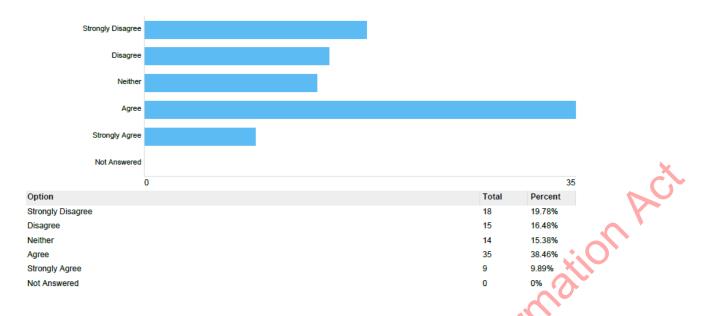
Q19. The possible contexts and activities for teaching and assessment are appropriate for exemplifying this standard.



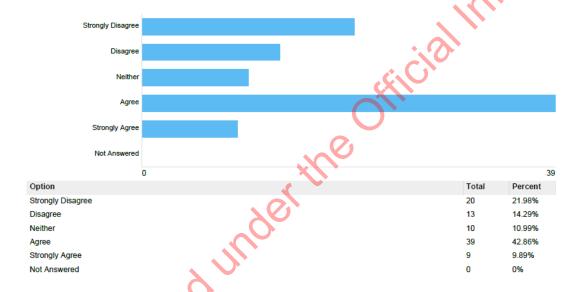
Q21. AS 1.2 – Explore a real-world issue and devise a local, science-informed action. The Title provides a general summary of the requirements for this standard.



Q22. Achievement Criteria sufficiently specify the requirements for the award of each grade.



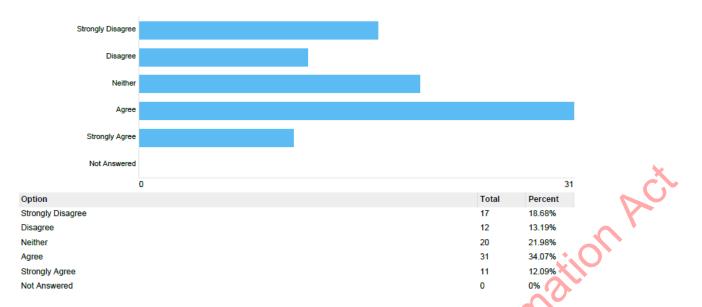
Q23. The Explanatory Notes clarify and explain the standard.



Q24. The Mode of Assessment (internal/external) suggested for this achievement standard is appropriate.



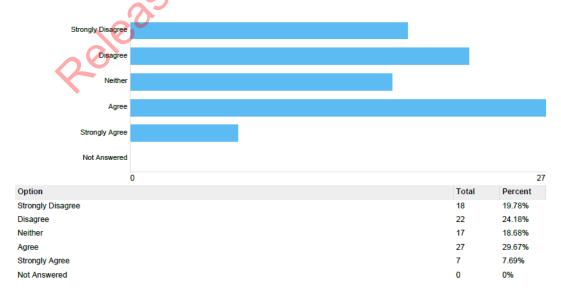
Q25. The possible contexts and activities for teaching and assessment are appropriate for exemplifying this standard.



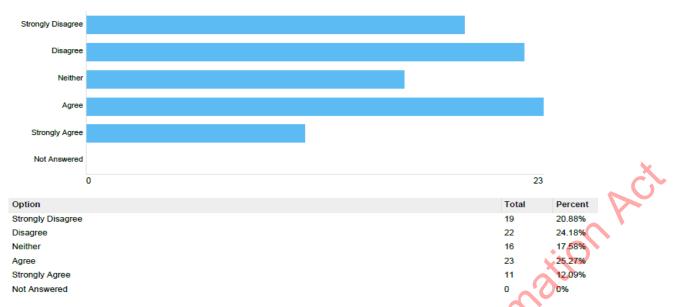
Q27. AS 1.3 - Describe attributes of Science that contribute to the development of scientific ideas and processes. The Title provides a general summary of the requirements for this standard.



Q28. The Achievement Criteria sufficiently specify the requirements for the award of each grade.



Q29. The Explanatory Notes clarify and explain the standard.



Q30. The Mode of Assessment (internal/external) suggested for this standard is appropriate.

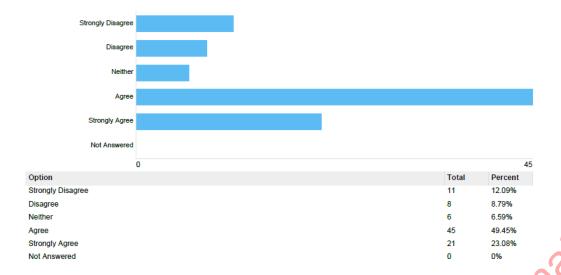


Consider NZQA feedback for how this AS is assessed externally.

Q31. Please provide some suggestions that might be useful for the SEG and NZQA in further developing external assessment activities for this standard.



Q32. AS 1.4 - Interpret scientific claims in publicly communicated information. The Title provides a general summary of the requirements for this standard.



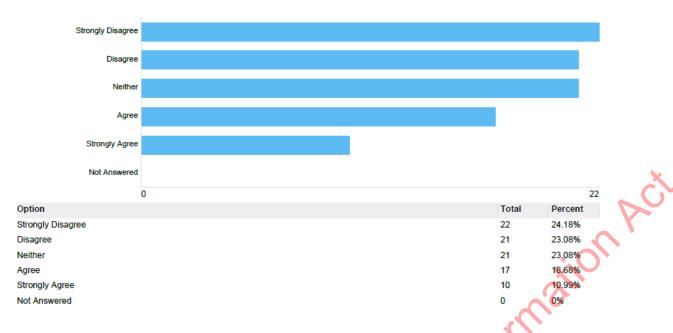
Q33. The Achievement Criteria sufficiently specify the requirements for the award of each grade. Clarify?



Q34. The Explanatory Notes clarify and explain the standard. Clarify ENs.



Q35. The Mode of Assessment (internal/external) suggested for this achievement standard is appropriate for the standard.



Consider NZQA feedback for how this AS is assessed externally.

Q37. These products provide the opportunity for all learners to see their language, culture and identity in their learning and assessment in Level 1 Science.

