High Quality Assessment Content Validity Review Tool

To understand the review process and the use of the review tool, go to:

How to use the Assessment Review Tool

Content Area: Science

Name of Assessment: PALS - Vitamin C Testing http://pals.sri.com/tasks/9-12/VitaminC/directs.html

Reviewer: Content Collaborative

Date of Review: 9/20/2012

This assessment item is only a part of the body of evidence around Physical Science GLE 4 which resulted in Partially Recommended. This task requires a specific pH indicator (indophenol) which may not be available at all schools. Indophenol is used specifically to indicate the presence of Vitamin C.

Assessment Profile	
Item Types - check all that apply (note: there is often overlap among certain item types): Selected Response (multiple choice, true-false, matching, etc.)	Check All That Apply
Short Answer (short constructed response, fill in a graphic organizer or diagram, explain your thinking or solution, make and complete a table, etc.)	х
Extended Response (essay, multi-step response with explanation and rationale required for tasks)	
Product (research paper, editorial, log, journal, play, poem, model, multimedia, art products, script, musical score, portfolio pieces, etc.)	
Performance (demonstration, presentation, science lab, dance or music performance, athletic performance, debate, etc.)	х
Process (creation, development, design, exploration, imagining, visualization, experimentation, invention, revision)	
The assessment includes:	Check All That Apply
Teacher directions (may include prerequisites/description of instruction before giving the assessment e.g., this assessment should be given after students have learned)	х
Scoring Guide/Rubric	Х
Sample evidence to show what student performance might look like	Х
Materials (if needed to complete the assessment)	Х
Estimated time for administration	Х
Student Directions & Assessment Task/Prompt – what does the student see/use?	Х
Other:	

A high quality assessment should be...Aligned

Alignment	Rating Column	Comments
1a.		Opportunities exist in the
Grade Level(s): High School		assessment for students to
Indicate the Colorado Academic Standards and Grade Level Expectations evaluated by the		organize data in a table and a
Assessment: SC09-GR.HS-S.1-GLE.4		graph.
Indicate the intended DOK range of the Grade Level Expectations: 1-3		
Indicate the intended DOK of the assessment (list DOK levels): 2-3		
1b. Describe the content knowledge/concepts assessed by the set of items or the		
performance task: pH, data analysis and interpretation, construction of hypothesis,		
titration skills		
1c. List the skills/performance assessed (what are students expected to do?): Develop,		
communicate, and justify evidence; Gather, analyze, and interpret data		
1d. To what extent do you see a strong content match between the set of items reviewed		
or the task and the corresponding Colorado Academic Standard/s? Use the definitions		
below to select your rating.		
□ Full match – all tasks or items fully address or exceed the relevant skills and knowledge		
described in the corresponding state standard/s.		

 Close match – most tasks or items address the relevant skills and knowledge described in the corresponding state standard/s. Partial match – many tasks or items partially address the skills and knowledge described in the corresponding state standard/s. Minimal match – some tasks or items match some relevant skills and knowledge described in the corresponding state standard/s. 		
□ No match – task or most items are not related to the skills and knowledge described in the corresponding state standard/s.		
Please provide evidence from both the standards and assessment to support your response: Students are completing an assessment task for Physical Science GLE 4 using many of the EO, but it is only one assessment task.		
	Full Match=5; Close Match=4; Partial Match=3; Minimal Match=2; No Match= 1	
Aligned to Colorado Academic Standards Rating		-
1e . Are the set of items or tasks reviewed as cognitively challenging as the grade level	Rating Column	Comments
expectations? Use the definitions below to select your rating.		
expectations? Use the definitions below to select your rating. More rigorous – most items or the tasks reviewed are at a higher DOK level than the range indicated for the grade level expectations. Similar rigor – most items or the task reviewed are similar to the DOK range indicated for the grade level expectations. Less rigor – most items or the task reviewed are lower than the DOK range indicated		
expectations? Use the definitions below to select your rating. More rigorous – most items or the tasks reviewed are at a higher DOK level than the range indicated for the grade level expectations. Similar rigor – most items or the task reviewed are similar to the DOK range indicated for the grade level expectations. Less rigor – most items or the task reviewed are lower than the DOK range indicated for the grade level expectations. Please provide evidence from both the grade level expectations and assessment to	Similar Rigor=2, More Rigor=1, Less Rigor=1	

A high quality assessment should be...Scored using Clear Guidelines and Criteria

Scoring Guide Present	х	Comments
□ Answer key, scoring template, computerized/machine scored	Х	The scoring criteria provided with
☐ Generalized Rubric (e.g., for persuasive writing, for all science labs)		the assessment does not allow
□ Task-Specific Rubric (only used for the particular task)	X	for a high level of rigor for high
□ Checklist (e.g., with score points for each part)	X	school students. The expected
□ Teacher Observation Sheet/ Observation Checklist		responses are clearly defined (bar
	Rating Column	graph) and does not allow for
2a. Does the rubric/scoring criteria align to Colorado Academic Standards in this assessment. Provide an explanation of your response: The rubric is closely aligned to the standards because the task is aligned to the standards.	Yes=3, Somewhat=2, No=1	different representations of the evidence. As with any points based scoring guide, caution is encouraged with the scoring
Rubric Aligned to Standards Rating	3	criteria.
2b. Are the score categories clearly defined and coherent across performance levels? Provide an explanation of your response: The scoring rubric is points based and very little depth is encouraged within the rubric.	Yes=3, Somewhat=2, No=1	
Rubric/Scoring Coherent Rating	2	
2c. To what degree does the rubric/scoring criteria address all of the demands within the task or item? Provide an explanation of your response. All of the items within the assessment task have related rubrics within the scoring criteria.	High=3, Moderate=2, Low or None=1	
Rubric/Scoring Aligned with Task Rating	3	
2d. Based on your review of the rubric/scoring criteria, do you think the scoring rubric would most likely lead different raters to arrive at the same score for a given response. Provide an explanation of your response. Different graders may interpret the scoring rubric differently, especially within the graphing section of the scoring guide.	Yes=3, Somewhat=2, No=1	

Rubric/Scoring Different Rater	s Same Rating 2	
2e. Is there student work (e.g., anchor papers, video, portfolio) which illustremastery? If so, describe. If not, what student work would be needed? Student provided as anchor examples. We urge caution as one of the graphs was subut probably should not have been scored this high.	ent work is Yes=3, Somewhat	=2,
Student Work S	amples Rating 3	

A high quality assessment should be...FAIR and UNBIASED

FAIR and UNBIASED (the areas below should be discussed relative to the needs of ELLs, gifted and talented students, and students with disabilities)	Rating Column	Comments
3a. To what extent are most of the items or the tasks designed and formatted to be visually clear and uncluttered (e.g., use of white space, graphics, and illustrations)? Provide an explanation of your response: The assessment task is visually clear and uncluttered. There are a few typos, probably related to the scanning process. Within the student task, indophenol is misspelled twice.	High=3, Moderate=2, Low=1	This assessment task requires students to watch for color changes within liquids. This may be problematic for color blind students.
Clear & Uncluttered Rating	3	
3b. To what extent are most of the items or the task presented in as straightforward a way as possible for a range of learners? Provide an explanation of your response: The lab directions are simple and clear for students to follow. The questions within the assessment task are specific and straightforward.	High=3, Moderate=2, Low=1	
Straight Forward Rating	3	
3c. To what degree is the vocabulary and context(s) presented by most of the items or task free from cultural or other unintended bias? Provide an explanation of your response: There is no intended bias. Some examples of different foods are given, but should not be a concern for most learners.	High=3, Moderate=2, Low=1	
Free of Cultural or Unintended Bias Rating	3	
3d. Does the assessment use appropriate levels of academic language for the grade and content area? Provide an explanation of your response. The academic language is appropriate for the task.	Yes=3, Somewhat=2, No=1	
Academic Language Rating	3	
3e. Does the assessment limit the usage of words that can be confused with one another (homonyms)? (Examples: ate/eight; sell/cell; allowed/aloud; beet/beat; by/buy). Provide an explanation of your response. No homonyms found.	Yes=3, Somewhat=2, No=1	
Confusing Language Rating	3	
*Please reference "Defining Features of Academic Language in WIDA's Standards" (http://wida.us/searchResults.aspx?cx=0001878867407992537742:bjkids4qwcy&cof=FORID:10&q=D efining%20Features%20of%20Academic%20Language) 3f. If applicable, what type of accommodations are provided to ensure that English Learners and/or Students with Disabilities can fully access the content represented by the task or set of items reviewed? Provide an explanation of your response. There are no specific accommodations given within the teacher directions.		
Accommodations are commonly categorized in five ways: presentation, response, setting, and timing and scheduling: o Presentation Accommodations —Allow students to access information in ways that do not require them to visually read standard print. These alternate modes of access are auditory, multi-sensory, tactile, and visual. o Response Accommodations —Allow students to complete activities, assignments, and assessments in different ways or to solve or organize problems using some type of assistive device or organizer. o Setting Accommodations —Change the location in which a test or assignment is given or the conditions of the assessment setting. o Timing and Scheduling Accommodations —Increase the allowable length of time to complete an assessment or assignment and perhaps change the way the time is organized.		
o Linguistic Accommodations — Allow English language learners (ELLs) to access academic construct measured by reducing the linguistic load of an assessment. The accommodation is based on an ELL's limited English language proficiency, which is different than an accommodation based on a student's disability or a cognitive need.		
3g: Are there adequate accommodations permitted for this assessment? Provide an explanation of your response. Accommodations are not specifically addressed.	Yes, Some identified=2; None identified =1	
Adequate Accommodations Allowed Rating	1	

A high quality assessment...Increases Opportunities to Learn

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Opportunities to Learn (the areas below should also be discussed relative to the needs of ELLs, gifted and	Rating Column	Comments
talented students, and students with disabilities)		
tulented students, and students with disabilities)		
4a. Does this assessment engage a student in thinking that connects to a real world, new		
context, situation, problem or challenge? Provide an explanation of your response: This	High=3; Moderate=2;	
assessment task is highly applicable to real world contexts. The end question asking	Low or None=1	
students to create a new hypothesis transferred to a new context encourages higher	LOW OF HOME-1	
level thinking skills and provides a new challenge for students.		
Engagement Rating	3	
4b. To what extent do you think the knowledge and skills tested by the assessment can		
provide good information about what students have learned in the classroom? Provide	High=3; Moderate=2;	
an explanation of your response: This assessment task is a good summative task around	Low or None=1	
the use of pH indicators and real world applications of pH.	LOW OF NOTICE	
the use of ph indicators and real world applications of ph.		
Classroom Learning Rating	3	
4c. To what degree do the results from this assessment (<i>scores and student work</i>		
analysis) foster meaningful dialogue about learning expectations and outcomes with		
students and parents? Provide an explanation of your response: Opportunities for	High=3; Moderate=2;	
students to communicate their understandings around interpretation of data exist and	Low or None=1	
applying their thinking to a new situation allows for meaningful dialogue with students		
and parents.		
Learning Expectations/Outcomes Rating	3	
4d. To what extent do you believe the assessment allows students to demonstrate		
academic excellence (e.g., creativity, transference to other content areas or 21st Century		
skills) to students? Provide an explanation of your response: This assessment task asks	High=3; Moderate=2;	
students to find the Vitamin C level of common beverages and then transfer this	Low or None=1	
experience to a new situation. As this is a performance task, 21st Century Skills are		
utilized.		
Communicate Academic Excellence Rating	3	
4e . Based on the content evaluated by the task or the set of items reviewed, to what		
extent do you think teachers can use the results (scores and student work analysis) to		
understand what competency on standard/s look like? Provide an explanation of your	High=3; Moderate=2;	
response: This assessment meets GLE 4 in terms of pH indicators. This is only a small	Low or None=1	
portion of a body of evidence around GLE 4.		
Competency on Standards Rating	3	
4f : Based on the content evaluated by the task or the set of items reviewed, to what		
extent do you think teachers can identify what purpose the assessment serves (e.g.		
diagnostic, report card grades, adjusting instruction, etc.)? Provide an explanation of	High=3; Moderate=2;	
your response: Teachers are able to determine appropriate uses of this assessment -	Low or None=1	
formative, interim and summative, depending on intended application within the		
classroom.		
Clarity of Purpose Rating	3	
	<u> </u>	
Summary	<u>Earned</u>	<u>Possible</u>
Standards Rating	4	5
Rigor Rating	2	7
Subtotal	6	85.7%
Rubric Aligned w/Standards Rating	3	85.7%
Rubric/Scoring Coherent Rating	2	3
Rubric/Scoring Aligned with Task Rating	3	3
Inter-rater Reliability Rating	2	3
Student Work Samples Rating	3	3
Subtotal	13	15
Subtotal	-5	86.7%
Clear & Uncluttered Rating	3	3
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	-	
Straight Forward Rating	3	3
Free of Cultural or Unintended Bias Rating	3	3
Academic Language Rating	3	3
Confusing Language Rating	3	3
Adequate Accommodations Allowed Rating	1	2
Subtotal	16	17
		94.1%
Engagement Rating	3	3
Reflects Classroom Learning Rating	3	3
Reflects Learning Expectations/Outcomes Rating	3	3
Communicates Academic Excellence Rating	3	3
Competency on Standards Rating	3	3
Locate Evidence Rating	3	3
Subtotal	18	18
		100.0%
Grand Total	53	57
		93.0%

This assessment is: Place an 'X' in the appropriate box

Fully Recommended	
Partially Recommended	х
Not Recommended	