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: Soil and Water New England Released Inquiry Task

Reviewer: Content Collaborative

Date of Review: 10-24-12

Abstract: This is a review of a New England Common Assessment Program Released Science Inquiry Task for "Soil and Water". It is targeted for New England Grade 4 but we correlated it to CAS Grade 5 Standard 3.1 and 3.2. Students conduct an experiment to compare how much water each of 3 soils can hold. They are then asked to apply this knowledge to how it affects plant life adaptability. It also can be extended to incorporate natural resources. Following the scientific process, conducting an experiment, creating graphs, and explaining results are all tasks that have direct scoring guides for the assessment component. We highly recommend this inquiry task.

Assessment Profile				
Item Types - check all that apply (note: there is often overlap among certain item				
types):	Check All That Apply			
Selected Response (multiple choice, true-false, matching, etc.)				
Short Answer (short constructed response, fill in a graphic organizer or diagram, explain your thinking or solution, make and complete a table, etc.)	X			
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)	х			
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)				
Scoring Guide/Rubric	Х			
Sample evidence to show what student performance might look like	X			
Materials (if needed to complete the assessment) listed at the beginning of inquiry				
booklet: common items in any science classroom.	Х			
Estimated time for administration				
Student Directions & Assessment Task/Prompt – what does the student see/use:				
explicit instructions for completing the performance task, for the experiments including data templates, scientific inquiry templates and materials needed.	, ,			
Other:	X			
ouici.				

A high quality assessment should be...Aligned

Alignment	Rating Column	Comments
1a.		
Grade Level(s): The test states 4th grade VT, RI, NH,		
Indicate the Colorado Academic Standards and Grade Level Expectations evaluated by		
the Assessment: SC09-GR.5-S.3-GLE.1-EO.b; SC09-GR.5-S.3-GLE.2-EO.b; Also see the		
Nature of Science, Relevance and Application and Inquiry Questions in these GLE's		
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: Natural resources, changes to the Earth's surface		

Rigor Level Rating	2	
	Rigor=2, Less Rigor=1	
	Similar Rigor=2, More	
Please provide evidence from both the grade level expectations and assessment to support your response: The assessment asks students to follow the scientific process, conduct an experiment, create graphs, and explain results.	Cincilar Dinas 2 2 2 2	
 □ More rigorous – most items or the tasks reviewed are at a higher DOK level than the range indicated for the grade level expectations. x 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. 		
1e. Are the set of items or tasks reviewed as cognitively challenging as the grade level expectations? Use the definitions below to select your rating.	Rating Column	Comments
Aligned to Colorado Academic Standards Rating	Match=3; Minimal Match=2; No Match= 1	
	Full Match=5; Close Match=4; Partial	
Please provide evidence from both the standards and assessment to support your response: The assessment asks the student to apply both knowledge and skills.		
□ No match – task or most items are not related to 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. 		
below to select your rating. X 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.		
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		
1c. List the skills/performance assessed: perform an experiment, graph data, explain experiment, justify and compare results and conclude.		

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

Scoring Guide Present	Check all that apply:	Comments
x Answer key, scoring template, computerized/machine scored		
Generalized Rubric (e.g., for persuasive writing, for all science labs)		
x Task-Specific Rubric (only used for the particular task)		
x Checklist (e.g., with score points for each part)		
x Teacher Observation Sheet/ Observation Checklist10/24/2012 Support notes		
Exemplary responses included for each constructed response.	Rating Column	
	Yes=3, Somewhat=2,	
	No=1	
Scoring Guide Appropriate to Task Rating	3	
2a.Does the rubric/scoring criteria align to Colorado Academic Standards in this assessment. Provide an explanation of your response: correlates to evaluating to the earth's geosphere, the rubric is concept based seems to be a direct match.	Yes=3, Somewhat=2, No=1	
Rubric Aligned to Standards Rating	3	
2b. Are the score categories clearly defined and coherent across performance levels? Provide an explanation of your response: Yes, the scoring categories are coherent.	Yes=3, Somewhat=2, No=1	

Rubric/Scoring Coherent Rating	3
2c. To what degree does the rubric/scoring criteria address all of the demands within the task or item? Provide and explanation of your response. Each question ahs a task specific rubric defining student performance levels	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. Student performance levels are very specific and lead to consistency for interrater reliability.	Yes=3, Somewhat=2, No=1
Rubric/Scoring Different Raters Same Rating	3
2e. Is there student work (e.g., anchor papers, video, portfolio) which illustrates student mastery? If so, describe. If not, what student work would be needed? Student work provided.	Yes=3, Somewhat=2, No=1
Student Work Samples Rating	3

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

3a. To what extent are most of the items or the tasks designed and formatted to be wisually clear and unclustered (e.g., use of white space, graphics, and illustrations)? Provide an explanation of your response: Includes a word bank. Clear & Unclustered Rating 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: Strong reading component. Straight Forward Rating 2 High=3, Moderate=2, Low=1 3c. To what degree is the vocabulary and context(s) presented by most of the items or the task presented by the forward Rating 3c. Does the assessment use of vocabulary, use of vocabulary is standard excince content vocabulary Free of Cuttural or Unintended Bias Rating 3d. Does the assessment use appropriate levels of academic language for the grade and content area? Provide an explanation of your response. See above Academic Language Rating 3c. Does the assessment limit the usage of words that can be confused with one another (homonyms)? (Examples: ate/eight; self/cell; allowed/aloud; beet/beat; by/buy). None noted. Confusing Language Rating 3d. Does the assessment limit the usage of words that can be confused with one another (homonyms)? (Examples: ate/eight; self/cell; allowed/aloud; beet/beat; by/buy). None noted. Confusing Language Rating 3d. Does the assessment sent of the season of	FAIR and UNBIASED (the areas below should be discussed relative to the needs of ELLs,	Rating Column	Comments
38. 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 responses: Strong reading component. Straight Forward Rating Con 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 responses: Word bank included, use of vocabulary, use of vocabulary is standard science content vocabulary Free of Cultural or Unintended Bias Rating 30. Does the assessment use appropriate levels of academic language for the grade and content area? Provide an explanation of your responses. See above Mcademic Language Rating 30. Does the assessment limit the usage of words that can be confused with one another (homonyms)? (Examples: ate/eight; self/cell; allowed/aloud; beet/beat; by/buy). None noted. Confusing Language Rating 31. 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? Accommodations are commonly categorized in five ways: presentation, response, setting, and timing and scheduling and sche	gifted and talented students, and students with disabilities) 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: Includes a word bank, strong reading component could bias this assessment, however there is a word bank.	_	
38. To what depend of learners? Provide an explanation of your personners. Straight Forward Rating 36. 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. Word bank included, use of vocabulary, use of vocabulary is standard science content vocabulary. Free of Cultural or Unintended Bias Rating 37. Does the assessment use appropriate levels of academic language for the grade and content area? Provide an explanation of your response. See above Academic Language Rating 38. 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; yo/byuly.) None noted. Confusing Language Rating 38. 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? Confusing Language Rating 39. Thing and Scheduling: Or Response 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. Or Response Accommodations —Change the location in which a test or assignment is appropriate to access are not provided to a sessesment or assignment and perhaps change the way the time is organized. Or Linguistic Accommodations—Allow English language learners (ELIs) to access access accomplete on a sessesment or assignment and perhaps change the way the time is organized. Or Linguistic Accommodation—Allow English language proficiency, which is different than an accommodation based on a sudent's disability or a cognitive need. Yes, Several allowed=3; Yes, Some allowed=2; None allowed=2; None allowed=1.	Clear & Uncluttered Rating	2	
Straight Forward Rating 2 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: Word bank included, use of vocabulary, use of vocabulary is standard science content vocabulary Free of Cultural or Unintended Bias Rating 3d. Does the assessment use appropriate levels of academic language for the grade and content area? Provide an explanation of your response. See above Academic Language Rating 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). None noted. Confusing Language Rating 3 the policiable, what type of accommodations are provided to ensure that English teamers and/or Students with Disabilities can fully access the content represented by the task or set of items reviewed? Accommodations are commonly categorized in five ways: presentation, response, setting, and timing and scheduling. Or Response Accommodations—Allow students to occess information in ways that do not require them to visually read standard print. These alternate modes of access are auditory, multi-sensory, tactle, and visual. Or 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 organize. Or Setting Accommodations—Change the location in which a test or assignment is given or the conditions of the assessment setting. Or Timing and Scheduling Accommodations—Increase the allowable length of time to complete on assessment or assignment and perhaps change the way the time is organized. Or Linguistic Accommodations—Allow English language proficiency, which is different than an accommodation based on a student's disability or a cognitive need. Yes, Seweral allowed-2; None allowed-2; None allowed-2; None allowed-1	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:	•	
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Academic Language Rating Be. 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). None noted. Confusing Language Rating 3 Tyes-3, Somewhat=2, No=1 Yes-3, Somewhate=2, No=1 Yes, Several allowed=3; Yes, Some allowed=1 Yes, Some allowed=1	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: Word bank included, use of vocabulary, use of vocabulary is standard science content vocabulary		
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Accommodations — Allow students to complete activities, assignments and do not require them to visually read standards. Allow students to complete activities, assignments in different ways or to solve or organizer. Setting Accommodations — Change the location in which a test or assignment or the complete an assessment or assignment and perhaps change the way the time is organized. De Linguistic Accommodations—Allow English language learners (ELLs) to access accommodations—Allow English language proficiency, which is different than an accommodations—Allow students for a student's disability or a cognitive need. Setting Accommodations—Allow English language perificiency, which is different than an accommodations—Allow English language proficiency, which is different than an accommodation based on a student's disability or a cognitive need. Yes, Several allowed=3; Yes, Some allowed=1		3	
Interprivide a possession of the assessment of the assessment of the complete an assessment or assignment and perhaps change the assessment of the complete an assessment or assignment and perhaps change the way the time to complete an assessment or assignment and perhaps change the way the time to complete an assessment or assignment and perhaps change the way the time to complete an assessment or assignment and perhaps change the way the time to complete an assessment or assignment and perhaps change the way the time is organized. The complete an assessment or assignment and perhaps change the way the time is organized. Linguistic Accommodations—Allow English language learners (ELLs) to access an 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. Yes, Several allowed=3; Yes, Some allowed=2; None allowed=2; None allowed=2; None allowed=2; None allowed=2; None allowed=2; None allowed=1	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). None noted.		
http://wida.us/searchResults.aspx?cv=0001878867407992537742:bjkids4qwcy&cof=FORID:10&q= def state of the sta	Confusing Language Rating	3	
Ag: Are there adequate accommodations permitted for this assessment? Provide an explanation of your response: Accommodations are not specified. Yes, Several allowed=3; Yes, Some allowed=2; None allowed =1	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? 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		
Adaquata Accommodations Allowed Pating N/A	3g: Are there adequate accommodations permitted for this assessment? Provide an explanation of your response: Accommodations are not specified.	Yes, Some allowed=2;	
	Adequate Accommodations Allowed Rating	N/A	

A high quality assessment...Increases Opportunities to Learn

Opportunities to Learn	Rating Column	Comments
(the areas below should also be discussed relative to the needs of ELLs, gifted and		
talented 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: Yes, there is teacher opportunity to connect the concepts to changing earth surface and natural resources.	High=3; Moderate=2; Low or None=1	
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 an explanation of your response: Close match with inquiry questions, relevance and application as well as nature of science.	High=3; Moderate=2; Low or None=1	
Classroom Learning Rating	3	
4c. To what degree do the results from this assessment (scores and student work analysis) foster meaningful dialogue about learning expectations and outcomes with students and parents? Provide an explanation of your response: The scoring guide for each item provides meaningful information about what the student knows and is able to do.	High=3; Moderate=2; Low or None=1	
Learning Expectations/Outcomes Rating	3	
4d. To what extent do you believe the assessment can clearly communicate expectations for academic excellence to students? Provide an explanation of your response: A scoring guide is included for students.	High=3; Moderate=2; Low or None=1	
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 response: Strong correlation with living systems interacting with environment, (Life Science), Nature of science, interpreting results, science process, Nature of Science and real world Applications, Trials.	High=3; Moderate=2; Low or None=1	
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 locate where the assessment evidence is represented within the curriculum, student learning objectives, or lesson? Provide an explanation of your response: Teachers must be able to transfer the information located in the 21st century skills and readiness competencies as well as connect those with evidence outcomes.	High=3; Moderate=2; Low or None=1	
Locate Evidence Rating	2	
Summary	<u>Earned</u>	<u>Possible</u>
Standards Rating	5	5
Rigor Rating	2	3
Subtotal	7	8
Capillas Cuido Appungisto Potino	2	87.5%
Scoring Guide Appropriate Rating Rubric Aligned w/Standards Rating	3	3
Rubric/Scoring Coherent Rating	3	3
Rubric/Scoring Aligned with Task Rating	3	3
Inter-rater Reliability Rating	3	3
Student Work Samples Rating	3	3
Subtotal	18	18
		100.0%
Clear & Uncluttered Rating	2	3
Straight Forward Rating	2	3
Free of Cultural or Unintended Bias Rating	3	3
Academic Language Rating	3	3
Confusing Language Rating	3	3
Adequate Accommodations Allowed Rating	N/A	3
Subtotal	13	18
		72.2%

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	2	3
Subtotal 17		18
		94.4%
Grand Total	Grand Total 55	
		88.7%

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

Fully Recommended	Х
Partially Recommended	
Not Recommended	