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: Uncovering Student Ideas in Life Science - Ecosystems and Adaptation Grouping - published by NSTA, written by Page Keeley: http://www.nsta.org/store/product_detail.aspx?id=10.2505/9781936137176

Reviewer: Content Collaborative

Date of Review: Oct 25, 2012

These assessment probes are Partially Recommended for Life Science GLE 1. Three out of seven EO statements are covered with these assessment probes. The review team must emphasize that these probes are to be used as a group, not as individual formative assessments.

Assessment Profile	
Item Types - check all that apply (note: there is often overlap among certain item	Check All That Apply
types): 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.)	
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	х
assessment e.g., this assessment should be given after students have learned)	
Scoring Guide/Rubric	
Sample evidence to show what student performance might look like	
Materials (if needed to complete the assessment)	
Estimated time for administration	
Student Directions & Assessment Task/Prompt – what does the student see/use?	X
Other: There are detailed explanations for different levels of students (primary, middle	
and high) for each probe.	

A high quality assessment should be...Aligned

Alignment	Rating Column	Comments
1a.		Teachers need to make sure to
Grade Level(s): High School 9-12		use the "High Schools Students"
Indicate the Colorado Academic Standards and Grade Level Expectations evaluated by		recommendations while
the Assessment: SC09-GR.HS-S.2-GLE.1		administering these probes. The
Indicate the intended DOK range of the Grade Level Expectations: 1-3		review team also suggests that all
Indicate the intended DOK of the assessment (list DOK levels): 2-3		the probes within the grouping
1b. Describe the content knowledge/concepts assessed by the set of items or the		are utilized within a classroom to
performance task: ecosystems, consumers, energy in tropic levels, adaptation, cycling of		fully grasp overall student
matter, flow of energy, food, food chain, food web, interdependence, natural selection,		understanding on the GLE, rather
producer (list was populated using the table on page 84 of the book)		than using them piecemeal.

1c. List the skills/performance assessed (what are students expected to do?): Is It a		These assessment probes are
Consumer? - students are asked to choose consumers and explain; Food Chain Energy -		designed to be used formatively,
explain why a specific response is chosen related to energy in a food chain; Ecosystem		but when used collectively make
Cycles - explain why a specific response is chosen related to matter and energy in an		a summative assessment.
ecosystem; No More Plants - explain why a specific response is chosen related to		
removing plants from an island; Changing Environment - explain why a specific response		
is chosen related to how a changing environment causes adaptation		
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.		
response: See the above description of what students need to accomplish. These assessments probes are a partial match as 3 out of 7 EO are used from GLE 1.		
	Full Match=5; Close	
	Match=4; Partial	
	Match=3; Minimal	
	Match=2; No Match= 1	
Aligned to Colorado Academic Standards Rating		
	Rating Column	Comments
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.		
□ 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		
support your response: These assessment probes have a similar rigor to the standards		
based on previous descriptions above.	Cimilar Digar-2 Marc	
	Similar Rigor=2, More	
Rigor Level Rating	Rigor=1, Less Rigor=1	

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

Scoring Guide Present	Check all that apply:	Comments
□ Answer key, scoring template, computerized/machine scored		While there is no specific scoring
☐ Generalized Rubric (e.g., for persuasive writing, for all science labs)		rubric or scoring guide, there is
 Task-Specific Rubric (only used for the particular task) 		detailed information about the
□ Checklist (e.g., with score points for each part)		probe and the scientific
□ Teacher Observation Sheet/ Observation Checklist		explanation is detailed and
	Rating Column	usable by educators. There is also
2a. Does the rubric/scoring criteria align to Colorado Academic Standards in this	Yes=3, Somewhat=2,	detailed information available in
assessment. Provide an explanation of your response: No scoring criteria specifically	No=1	each probe which should be used
available.	NO-1	to match the grade level
Rubric Aligned to Standards Rating	N/A	expectations to the probes.

2b. Are the score categories clearly defined and coherent across performance levels? Provide an explanation of your response: No scoring criteria available.	Yes=3, Somewhat=2, No=1
Rubric/Scoring Coherent Rating	N/A
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. No scoring criteria specifically available.	High=3, Moderate=2, Low or None=1
Rubric/Scoring Aligned with Task Rating	N/A
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. No scoring criteria specifically available.	Yes=3, Somewhat=2, No=1
Rubric/Scoring Different Raters Same Rating	N/A
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? No student work is available, but there is guidance on what level of explanations are expected for different grade bands.	Yes=3, Somewhat=2, No=1
Student Work Samples Rating	N/A

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: Each probe is a single page and includes a simple diagram and space for student responses making the items clear and uncluttered.	High=3, Moderate=2, Low=1	
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: Each item is straightforward for different learners. There is an initial question to be answered, followed by space and lines for student explanations.	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 are specific names used in many of the probes (such as Tatyana, Molly, Amos and Ursula) which may increase some unintended bias, but overall there is limited bias in the probes.	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 initial probe uses fairly "simple" academic language as they were designed to be used in multiple grade bands. The information provided in the explanation section details the level of language and scientific explanation expected for high school. This is dependent on teachers pushing students towards the use of the higher academic language in their response.	Yes=3, Somewhat=2, No=1	
Academic Language Rating	2	
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 specific confusing words were 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=Defining%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. No accommodations given.		
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. No accommodations given.	Yes, Some identified=2; None identified =1	
Adequate Accommodations Allowed Rating	1	

A high quality assessment...Increases Opportunities to Learn

A high quality assessmentIncreases Opportunities to L	<u>earn</u>	
Opportunities to Learn (the areas below should also be discussed relative to the needs of ELLs, gifted and talented students, and students with disabilities)	Rating Column	Comments
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: Each probe connects to new contexts and situations.	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: When these probes are used as a summative assessment set, these probes can provide clear information about what students have learned in the classroom.	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: While these probes are designed to be formative in nature, when used collectively at the end of a unit, the student responses can be used to foster meaningful dialogue about learning expectations.	Low or None=1	
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: Each probe expects students to explain their thinking and reasoning.	High=3; Moderate=2; Low or None=1	
Communicate Academic Excellence Rating	2	
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 (<i>scores and student work analysis</i>) to understand what competency on standard/s look like? Provide an explanation of your response: When used a summative assessments, as a group, these probes can allow teachers to understand what competency looks like on standards. The explanations provided within the book also help teachers understand competency.	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 identify what purpose the assessment serves (e.g. diagnostic, report card grades, adjusting instruction, etc.)? Provide an explanation of your response: These assessments taken alone are formative in nature. The review team suggests that these probes be used as a group, making them summative as well. The nature of the probes allow for a clear understanding of student thinking and understanding.	High=3; Moderate=2; Low or None=1	
Clarity of Purpose Rating	3	
Summary	<u>Earned</u>	<u>Possible</u>
Standards Rating	3	5
Rigor Rating		2
Subtota	5	7
	N/2	71.4%
Rubric Aligned w/Standards Rating		3
Rubric/Scoring Coherent Rating Rubric/Scoring Aligned with Task Rating		3
Inter-rater Reliability Rating		3
Student Work Samples Rating		3

Subtotal	0	15
		0.0%
Clear & Uncluttered Rating	3	3
Straight Forward Rating	3	3
Free of Cultural or Unintended Bias Rating	3	3
Academic Language Rating	2	3
Confusing Language Rating	3	3
Adequate Accommodations Allowed Rating	1	2
Subtotal	15	17
		88.2%
Engagement Rating	3	3
Reflects Classroom Learning Rating	3	3
Reflects Learning Expectations/Outcomes Rating	3	3
Communicates Academic Excellence Rating	2	3
Competency on Standards Rating	3	3
Locate Evidence Rating	3	3
Subtotal	17	18
		94.4%
Grand Total	37	57
		64.9%

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

Fully Recommended	
Partially Recommended	х
Not Recommended	