

## 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](#)

<b>Content Area: Science</b>
<b>Name of Assessment: Diagnoser - Force and Motion - Forces to Explain Motion - Explaining Changes in 2D Motion</b> <a href="http://diagnoser.com/">http://diagnoser.com/</a>
<b>Reviewer: Content Collaborative</b>
<b>Date of Review: 9/20/2012</b>

**This is Partially Recommended because the assessment set only gives a small set of information about only part of Physical Science GLE 1 but is a quality assessment example.**

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

### A high quality assessment should be...Aligned

Alignment	Rating Column	Comments
<b>1a.</b>		
Grade Level(s): High School		
Indicate the Colorado Academic Standards and Grade Level Expectations evaluated by the Assessment: SC09-GR.HS-S.1-GLE.1		
Indicate the intended DOK range of the Grade Level Expectations: 1-3		
Indicate the intended DOK of the assessment (list DOK levels) : 2		
<b>1b.</b> Describe the content knowledge/concepts assessed by the set of items or the performance task: 2-Dimensional motion associated with forces		

<p><b>1c.</b> List the skills/performance assessed (what are students expected to do?): respond to multiple choice questions on 2D motion and forces</p>		
<p><b>1d.</b>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? <b>Use the definitions below to select your rating.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Full match</b> – all tasks or items fully address or exceed the relevant skills and knowledge described in the corresponding state standard/s.</li> <li><input type="checkbox"/> <b>Close match</b> – most tasks or items address the relevant skills and knowledge described in the corresponding state standard/s.</li> <li><input type="checkbox"/> <b>Partial match</b> – many tasks or items partially address the skills and knowledge described in the corresponding state standard/s.</li> <li><input type="checkbox"/> <b>Minimal match</b> – some tasks or items match some relevant skills and knowledge described in the corresponding state standard/s.</li> <li><input type="checkbox"/> <b>No match</b> – task or most items are not related to the skills and knowledge described in the corresponding state standard/s.</li> </ul> <p><b>Please provide evidence from both the standards and assessment to support your response: This particular assessment set is only looking at one specific component of GLE 1. There are only a few questions on acceleration. Most of the items are related to Newton's Laws of Motion.</b></p>	<p>Full Match=5; Close Match=4; Partial Match=3; Minimal Match=2; No Match= 1</p>	
<b>Aligned to Colorado Academic Standards Rating</b>	<b>3</b>	
<p><b>1e.</b> Are the set of items or tasks reviewed as cognitively challenging as the grade level expectations? <b>Use the definitions below to select your rating.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>More rigorous</b> – most items or the tasks reviewed are at a higher DOK level than the range indicated for the grade level expectations.</li> <li><input type="checkbox"/> <b>Similar rigor</b> – most items or the task reviewed are similar to the DOK range indicated for the grade level expectations.</li> <li><input type="checkbox"/> <b>Less rigor</b> – most items or the task reviewed are lower than the DOK range indicated for the grade level expectations.</li> </ul> <p><b>Please provide evidence from both the grade level expectations and assessment to support your response: Students are able to explain, describe and compare their understanding of motion through multiple choice and short answer questions.</b></p>	<p><b>Rating Column</b></p>	<p><b>Comments</b></p>
	<p>Similar Rigor=2, More Rigor=1, Less Rigor=1</p>	
<b>Rigor Level Rating</b>	<b>2</b>	

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

<p><b>Scoring Guide Present</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Answer key, scoring template, computerized/machine scored</b></li> <li><input type="checkbox"/> <b>Generalized Rubric</b> (e.g., for persuasive writing, for all science labs)</li> <li><input type="checkbox"/> <b>Task-Specific Rubric</b> (only used for the particular task)</li> <li><input type="checkbox"/> <b>Checklist</b> (e.g., with score points for each part)</li> <li><input type="checkbox"/> <b>Teacher Observation Sheet/ Observation Checklist</b></li> </ul>	<p><b>Check all that apply:</b></p> <p style="text-align: center;"><b>x</b></p>	<p><b>Comments</b></p> <p>Diagnoser is a computer based assessment program. The assessment is scored as students take the assessment, including the short answer responses. No scoring rubrics were found for the short answer items.</p>
<p><b>2a.</b> Does the rubric/scoring criteria align to Colorado Academic Standards in this assessment. <b>Provide an explanation of your response: No rubric is available for the short answer items.</b></p> <p style="text-align: right;"><b>Rubric Aligned to Standards Rating</b></p>	<p><b>Rating Column</b></p> <p>Yes=3, Somewhat=2, No=1</p> <p style="text-align: center;"><b>1</b></p>	
<p><b>2b.</b> Are the score categories clearly defined and coherent across performance levels? <b>Provide an explanation of your response: No rubric is available for the short answer items.</b></p> <p style="text-align: right;"><b>Rubric/Scoring Coherent Rating</b></p>	<p>Yes=3, Somewhat=2, No=1</p> <p style="text-align: center;"><b>1</b></p>	<p>Diagnoser does give the FACET understandings for each item, but not a scoring rubric.</p>

<p><b>2c.</b> To what degree does the rubric/scoring criteria address all of the demands within the task or item? <b>Provide an explanation of your response. No rubric is available.</b></p>	<p>High=3, Moderate=2, Low or None=1</p>	
<p><b>Rubric/Scoring Aligned with Task Rating</b></p>	<p>1</p>	
<p><b>2d.</b> 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. <b>Provide an explanation of your response. None available.</b></p>	<p>Yes=3, Somewhat=2, No=1</p>	
<p><b>Rubric/Scoring Different Raters Same Rating</b></p>	<p>1</p>	
<p><b>2e.</b> Is there student work (e.g., anchor papers, video, portfolio) which illustrates student mastery? <b>If so, describe. If not, what student work would be needed? None available.</b></p>	<p>Yes=3, Somewhat=2, No=1</p>	
<p><b>Student Work Samples Rating</b></p>	<p>1</p>	

## 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
<b>3a.</b> 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)? <b>Provide an explanation of your response: Each item is imaged on the screen separately making it uncluttered and visually clear.</b>	High=3, Moderate=2, Low=1	
<b>Clear &amp; Uncluttered Rating</b>	<b>3</b>	
<b>3b.</b> To what extent are most of the items or the task presented in as straightforward a way as possible for a range of learners? <b>Provide an explanation of your response: This assessment set is highly focused on one particular concept, making it highly straight forward.</b>	High=3, Moderate=2, Low=1	
<b>Straight Forward Rating</b>	<b>3</b>	
<b>3c.</b> To what degree is the vocabulary and context(s) presented by most of the items or task free from cultural or other unintended bias? <b>Provide an explanation of your response: Hula hoops, marbles, inline skates, hockey, and proper names were used within the set. This increases the unintended bias.</b>	High=3, Moderate=2, Low=1	
<b>Free of Cultural or Unintended Bias Rating</b>	<b>2</b>	
<b>3d.</b> Does the assessment use appropriate levels of academic language for the grade and content area? <b>Provide an explanation of your response. The academic language within the assessment set is highly content specific, but is appropriate.</b>	Yes=3, Somewhat=2, No=1	
<b>Academic Language Rating</b>	<b>3</b>	
<b>3e.</b> 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). <b>Provide an explanation of your response. No homonyms found.</b>	Yes=3, Somewhat=2, No=1	
<b>Confusing Language Rating</b>	<b>3</b>	
<small> <a href="http://wida.us/searchResults.aspx?cx=0001878867407992537742:bjkids4qwcy&amp;cof=FORID:10&amp;q=academic+reference+Defining+Features+of+Academic+Language+in+WIDA's+Standards">http://wida.us/searchResults.aspx?cx=0001878867407992537742:bjkids4qwcy&amp;cof=FORID:10&amp;q=academic+reference+Defining+Features+of+Academic+Language+in+WIDA's+Standards</a> </small>		
<b>3f.</b> 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? <b>Provide an explanation of your response. No accommodations provided.</b>		
<i>Accommodations are commonly categorized in five ways: presentation, response, setting, and timing and scheduling:</i> <ul style="list-style-type: none"> <li>o <b>Presentation Accommodations</b> —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.</li> <li>o <b>Response Accommodations</b> —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.</li> <li>o <b>Setting Accommodations</b> —Change the location in which a test or assignment is given or the conditions of the assessment setting.</li> <li>o <b>Timing and Scheduling Accommodations</b> —Increase the allowable length of time to complete an assessment or assignment and perhaps change the way the time is organized.</li> <li>o <b>Linguistic Accommodations</b>— 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.</li> </ul>		
<b>3g:</b> Are there adequate accommodations permitted for this assessment? <b>Provide an explanation of your response. No accommodations provided.</b>	Yes, Some identified=2; None identified =1	
<b>Adequate Accommodations Allowed Rating</b>	<b>1</b>	

## A high quality assessment...Increases Opportunities to Learn

Opportunities to Learn	Rating Column	Comments
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<i>(the areas below should also be discussed relative to the needs of ELLs, gifted and talented students, and students with disabilities)</i>		
4a. Does this assessment engage a student in thinking that connects to a real world, new context, situation, problem or challenge? <b>Provide an explanation of your response: The context of the assessment set connects to real world and new contexts.</b>	High=3; Moderate=2; Low or None=1	
<b>Engagement Rating</b>	<b>3</b>	
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? <b>Provide an explanation of your response: Using this assessment set at the end of a lesson on forces, a clear picture of what students have learned is determined.</b>	High=3; Moderate=2; Low or None=1	
<b>Classroom Learning Rating</b>	<b>3</b>	
4c. To what degree do the results from this assessment ( <i>scores and student work analysis</i> ) foster meaningful dialogue about learning expectations and outcomes with students and parents? <b>Provide an explanation of your response: Diagnoser contains Elicitation and Developmental Lessons which helps teachers know how to address learning expectations and outcomes. These tools help to foster meaningful dialogue about topics.</b>	High=3; Moderate=2; Low or None=1	
<b>Learning Expectations/Outcomes Rating</b>	<b>3</b>	
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? <b>Provide an explanation of your response: This assessment only provides opportunity to describe and explain.</b>	High=3; Moderate=2; Low or None=1	
<b>Communicate Academic Excellence Rating</b>	<b>2</b>	
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? <b>Provide an explanation of your response: This assessment set is highly specific, so would only provide a small understanding of the entire standard.</b>	High=3; Moderate=2; Low or None=1	
<b>Competency on Standards Rating</b>	<b>2</b>	
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.)? <b>Provide an explanation of your response: This assessment set is highly specific, so teachers should be able to identify the purpose.</b>	High=3; Moderate=2; Low or None=1	
<b>Clarity of Purpose Rating</b>	<b>3</b>	
<b>Summary</b>		
	<b>Earned</b>	<b>Possible</b>
Standards Rating	3	5
Rigor Rating	2	2
Subtotal	5	7
		<b>71.4%</b>
Rubric Aligned w/Standards Rating	1	3
Rubric/Scoring Coherent Rating	1	3
Rubric/Scoring Aligned with Task Rating	1	3
Inter-rater Reliability Rating	1	3
Student Work Samples Rating	1	3
Subtotal	5	15
		<b>33.3%</b>
Clear & Uncluttered Rating	3	3
Straight Forward Rating	3	3
Free of Cultural or Unintended Bias Rating	2	3
Academic Language Rating	3	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	2	3
Locate Evidence Rating	3	3
Subtotal	16	18
		88.9%
Grand Total	41	57
		71.9%

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

Fully Recommended	
Partially Recommended	x
Not Recommended	