INTRODUCTION TO ASSESSMENT DESIGN













Classroom Assessments

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Practice Writing & Selecting Assessments Refine Revisit Assumptions Learn the Basics of Assessment Design

















Classroom Assessments

Five Elements

ofAssessment

Design

Validity and Reliability

How to Use

the Assessment

Blueprint

assessment

processes and tools that measure what students know and can do





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How to Use the Assessment Blueprint





asses term t

assessment design

term that includes planning, writing and selecting assessments

Five Elements of Assessment sign

Sources: Kansas State Department of Education, Assessment Literacy Project; Ohio Department of Education, "Assessment Literacy: Identifying and Developing Valid and Reliable Assessments" (2013); Relay Graduate School of Education, *Designing and Evaluating Assessments* (2014); and Rhode Island Department of Education, "Deeping Assessment Literacy."





Sources: To create this list, we synthesized information from several sources: Kansas State Department of Education, Assessment Literacy Project; Ohio Department of Education, "Assessment Literacy: Identifying and Developing Valid and Reliable Assessments" (2013); Relay Graduate School of Education, *Designing and Evaluating Assessments* (2014); Rhode Island Department of Education, "Deeping Assessment Literacy."

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An assessment that is ALIGNED WITH STANDARDS measures student performance against those standards





An assessment has an APPROPRIATE LEVEL OF RIGOR if the assessment includes assessment items that match the level of rigor of the skill(s) you intend to measure *and* the assessment measures a range of student thinking and understanding so that it measures what all students know and can do





A PRECISE assessment measures students' knowledge and skills, not their misinterpretations or lack of unrelated background knowledge





An UNBIASED assessment measures students' knowledge and skills, not differences among groups of students because of their personal characteristics, such as race, gender, socioeconomic status or religion





An assessment that has an **APPROPRIATE SCORING STRATEGY** measures students' knowledge and skills, not how or when the assessment is scored or who scores it







Classroom Assessments







validity

the extent to which an assessment measures what you intend it to measure

reliability

the extent to which a student's score will be the same no matter when, where or in what form the student takes the assessment or who scores it

Sources: Kansas State Department of Education, Assessment Literacy Project; Ohio Department of Education, "Assessment Literacy: Identifying and Developing Valid and Reliable Assessments" (2013).



















Five Elements of Assessment Design

Validity and Reliability



PLAN				
1. Determine the Primary Purpose of the Assessment		Is the primary purpose of the assessment diagnostic (to gauge student: knowledge and skills before instruction), formative (to manitor student progress and adjust instruction), interim (to measure student progress relative to an academic goal) or summative (to measure student maste of standards).		
2. Identify the Standard(s) You Will Assess	3. Identify the Skill(s) Addressed in Each Standard	4. Identify the Level(s) of Rigor of Each Skill	5. Identify Possible Types of Assessment Items ²	
Which standard(s) will you assess?	What individual skill(s) in each standard will you assess? Paraphrase the standard or call out the skill on which you will focus.	What are the cognitive level(s) of each skill?" 1. Remembering 2. Understanding 3. Applying 4. Analyzing 5. Evaluating 6. Creating	Which type(s) of items can you write or select assess this skill? Examples of items are selected response (SR), constructed response (CR) and performance task (PT).	
WRITE				
6. Write and/or Se	lect Assessment Items			
Identify the Stand Addressed by the	ard(s) and/or Skill(s) Item	What are the individual standard(s) and skill(item?	s) you will measure in thi	
Identify the Type of Item		Which type of item will you write or select to assess this standard and skill?		
Identify the Level	s) of Rigor of the Item	What is the level(s) of rigor of the item?		
Write or Select the Item		ITEM Develop all parts of the item. ANSWER KEY, SCORING GUIDE OR RUBRIC Develop the scoring tool, for example, answer key, scoring guide and/ar		
		rubric.	xey, scoring goine unino	
Assign a Number	of Points to Each Item	How many points will you assign to the item?		
Calculate the Proportion of Total Assessment Points		What proportion of total points on the assessment does the item equal?		
013).		ssessment Literacy: Identifying and Developing V d Response (CR), Performance Task (PT), Selected		

2. Stand	lard(s) (one per row)		3. Skill(s) (one	4. Level(s) of	5. Possible Type(s)
			per row)	Rigor	of Items
6. Write	and/or Select Assessment Iter	ms			
item #	Standard(s) and/or Skill(s)	Type of Item	Level(s) of Rigor	# of Points	% of Assessment
SSES	SMENT				
	SMENT baste your assessment items he	re to create a stu	udent-facing assesse	nent.	
SSES py and p TBD TBD TBD TBD TBD TBD		re to create a stu	udent-facing assesse	nent.	

Source: Adapted from Ohio Department of Education, "Assessment Literacy: Identifying and Developing Valid and Reliable Assessments" (2013).

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Five Elements of Assessment Design

\sim	Write opinion of view with r		
Validity and Reliability	6. Write	and/	
Keliabilitu	Item #	Star	
	1	Det nev	
1 1	2	Que ma the	
	3	Wri sup	
to Use	TOTAL		
How to Use the Assessment Blueprint	Source Achiev Russell	eme	

1. Prima	ry Purpose of the Assessment		Summative				
2. Stand	ard(s) (one per row)		3. Skill(s) (one per row)	4. Level(s) of Rigor	5. Possible Type(s)	of Items	
Reading Informational Text 1: Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text.			Quote accurately from the text (explicitly and making inferences).	1 SR			
Reading Informational Text 2: Determine two or more main ideas of a text and explain how they are supported by key details; summarize the text.			Identify main ideas and how key details support them.	ASSESSMENT DESIGN TOOLKIT ASSESSMENT BLUEPRINT EXAMPLE BLUEPRINT EXAMPLE . Determine the Primary Purpose of the Assessment Summative			
Reading Informational Text 4: Determine the meaning of general academic and domain- specific words and phrases in a text relevant to a grade 5 topic or subject area.		Determine the meaning of new vocabulary words.	 Standard(s) (one per row) Reading informational Text 1: Quote accurately from text when explaining what the text says explicitly and when drawing inferences from the text. Reading informational Text 2: Determine two or mor main ideas of a text, and explain how they are supported by key details; summize the text. 	text (explicitly and when making inferences).	s. Possible Type(s) of Items SR CR		
Reading Informational Text 8: Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point(s).		Explain how the author uses evidence to support his or her claims.	Reading Informational Text, 4: Determine the meanin of general academic and domain-specific words and phrases in a text relevant to a grade stopp; or subject area. Reading information could be academic to apply and evaluate uses reaction of endotree to apply and evaluate point in a condentifying which reasons and an evaluate and an another point(s).	r Explain how the author uses 4 evidence to support his or her claims.	SR CR		
Writing 1: Write opinion pieces on topics or texts, supporting a point of view with reasons and information.		Write an opinion piece on texts.	Vriting 1: Write opinion pieces on topics or texts supporting a point of view with reasons and information.	Write an opinion piece on 5 texts. Support your point of view with evidence.	CR, PT CR, PT		
		Support your point of view with evidence.	6: Write and/or Select Assessment Items Item # Standard(s) and/or Skill(s) Type of Ite Determine the meaning of SR-MC	Level(s) of Rigor # of Points 1-3 5	% of Assessment		
6. Write	and/or Select Assessment Item	s		new vocabulary words. Quote accurately, identify main ideas and explain how	1-4 12	34	
Item #	Standard(s) and/or Skill(s)	Type of Item	Level(s) of Rigor	the author uses evidence. PT-Essay support your point of view.	5 28	51	
1	Determine the meaning of new vocabulary words.	SR-MC	1-3	TAL	35	100%	
2	Quote accurately, identify main ideas and explain how the author uses evidence.	CR-Short Answer	1-4		1		
3	Write an opinion, and support your point of view.	PT-Essay	5	18	51		
TOTAL				35	100%		

Dhio Department of Education, "Ohio's New Learning Standards: English Language Standards" (2010); Student ent Partners, "Mini-assessment for Who was Marco Polo? by Joan Holub and The Adventures of Marco Polo by edman" (2014).

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Classroom Assessments

Five Elements of Assessment Design



How to Use the Assessment Blueprint

1. Prima	ry Purpose of the Assessment		Summative					
2. Standa	ard(s) (one per row)		3. Skill(s) (one per row)	4. Level(s) of Rigor	5. Possible Type(s) of Items			
Reading Quote ac text sr text. Readi Deter how t text.	cu rom a text when explaining		c accurately from the $\frac{1}{3}$ try and $\frac{1}{3$	vel(s) of Rigor	Type(s) of Items			
Determin specific v	Reading Informational Text 4: Determine the meaning of general academic and domain- specific words and phrases in a text relevant to a grade 5 topic or subject area.Determine the meaning of new vocabulary words.2SR							
Reading Informational Text 8: Explain how an author uses reasons and support particular points in a text, ident reasons and evidence support which po								
	Writing 1:							
	inion pieces on topics or texts, s vith reasons and information.	Upportin	Support your point of view with evidence.	5	CR, PT			
6. Write and/or Select Assessment Items								
ltem #	Standard(s) and/or Skill(s)	Type of Item	Level(s) of Rigor	# of Points	% of Assessment			
1	Determine the meaning of new vocabulary words.	SR-MC	1-3	5	14			
2	Quote accurately, identify main ideas and explain how the author uses evidence.	CR-Short Answer	1-4	12	34			
3	Write an opinion, and support your point of view.	PT-Essay	5	18	51			
TOTAL				35	100%			

Primary

Purpose







Explain the purpose of the ASSESSMENT BLUEPRINT and the ASSESSMENT BLUEPRINT EXAMPLE





1. Discuss in one to three sentences why we recommend that you focus on five elements of assessment design as opposed to the statistical concepts associated with validity and reliability.



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1. Discuss in one to three sentences why we recommend that you focus on five elements of assessment design as opposed to the statistical concepts associated with validity and reliability.

Assessments that I use in my classroom do not demand the same level of statistical scrutiny as large-scale, standardized tests, but I can consider five elements of assessment design to ensure that my assessments are reasonably valid and reliable. Once I master how to address these five elements, I will be able to plan, write and select assessments that have an appropriate level of validity and reliability for use in my classroom.



2. What are the assessment blueprint and assessment blueprint example, and how will you use them to understand the concepts in this series of modules and plan assessments in the future?



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The assessment blueprint and the assessment blueprint example are tools to help me organize the concepts in this series of modules. The assessment blueprint includes a table with directions and a blank template that I can repurpose to design my own assessments. The assessment blueprint example is the template filled out with an example. I can use the tools in my teaching practice to help me determine which standard or standards I plan to measure and design assessments to measure mastery of the standard or standards before I begin teaching.

CONCLUSION

