

Creating Effective Classroom Assessments

Stuart R. Kahl, Ph.D. Deborah Farrington, M.Ed. Ellen Vorenkamp, Ed.D.

Why is this webinar for you?





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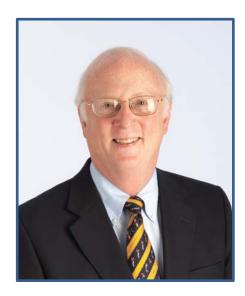
To help you recognize and support effective classroom assessment practices.



- 1. Matching tests to their purposes
- 2. Alignment of tests and test questions to standards

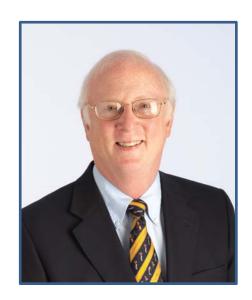
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- 3. Test and item quality

- 1. Matching tests to their purposes
- 2. Alignment of tests and test questions to standards
- 3. Test and item quality
- 4. Promoting teacher training for creating and using effective classroom assessments



Stuart R. Kahl, Ph.D.

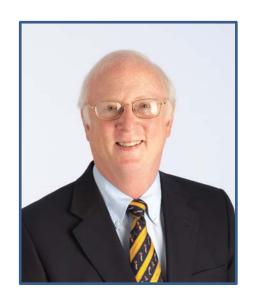




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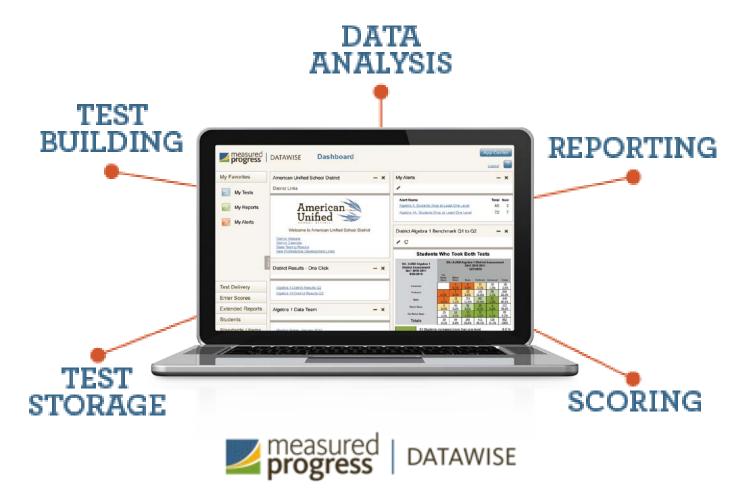
Ellen Vorenkamp, Ed.D.

Data Management Tool



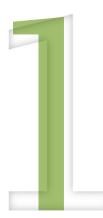


Data Management Tool









Categories of Assessment



Categories of Assessment

External Summative Assessments



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Interim or Benchmark Tests



Categories of Assessment

External Summative Assessments

Interim or Benchmark Tests Summative Classroom Tests

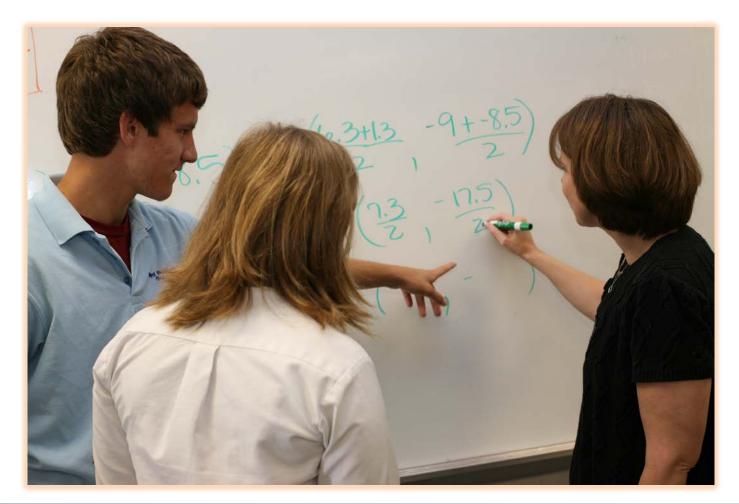


Categories of Assessment

External Summative Assessments

Interim or Benchmark Tests Summative Classroom Tests





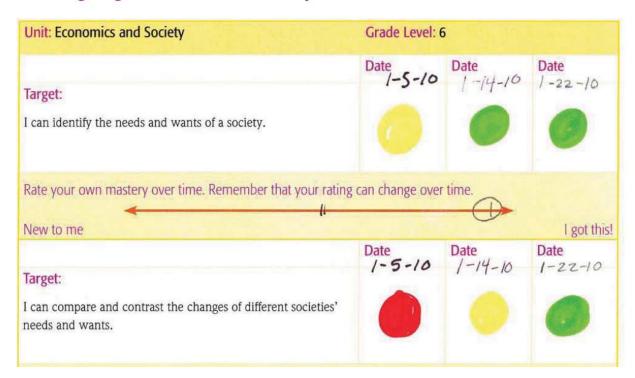




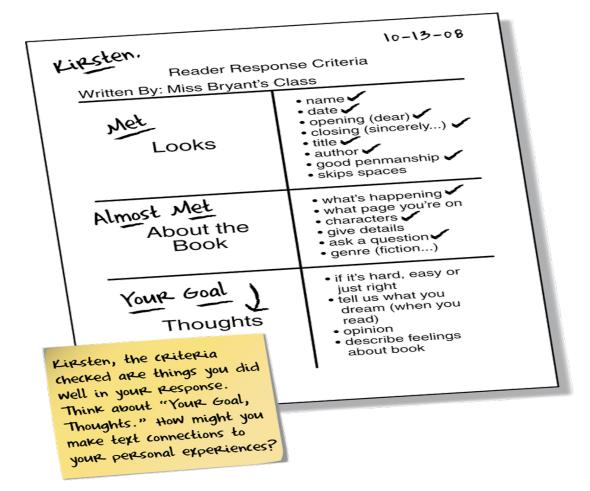


Formative Assessment

Learning Target Self-Assessment: Completed









Diagnostic?



Diagnostic?



Diagnostic?

External Summative Assessments



Diagnostic?

External Summative Assessments



Diagnostic?

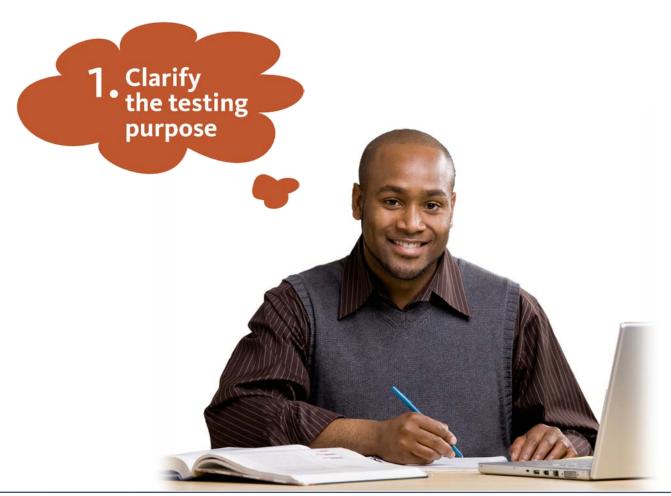
External Summative Assessments

Interim or Benchmark Tests Summative Classroom Tests

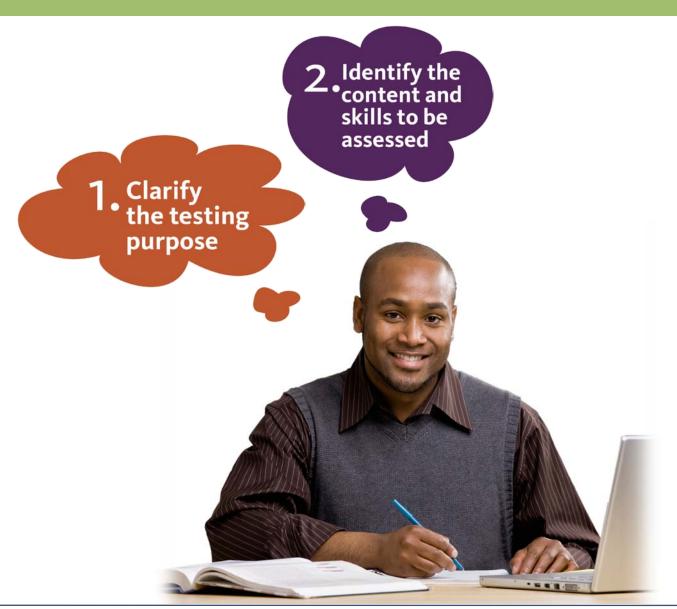




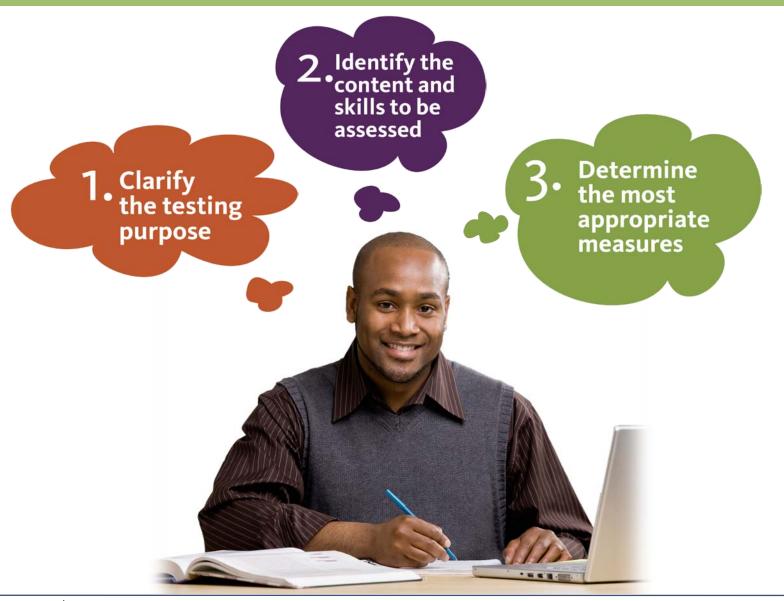






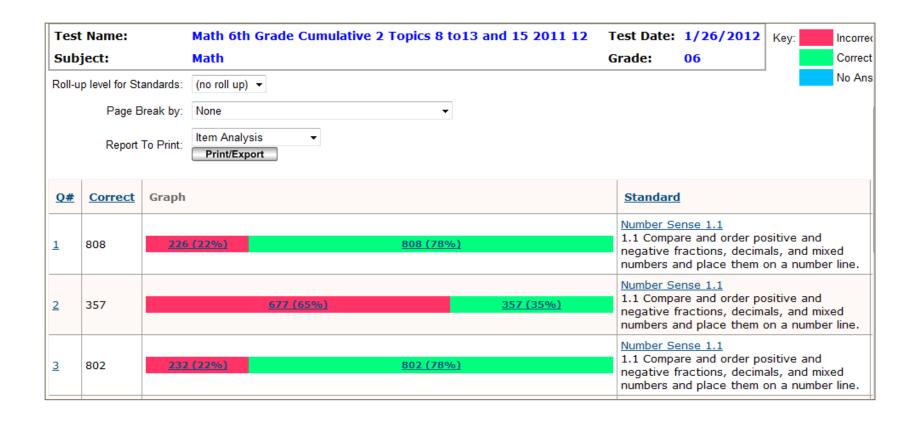








DATAWISE Item Analysis Report

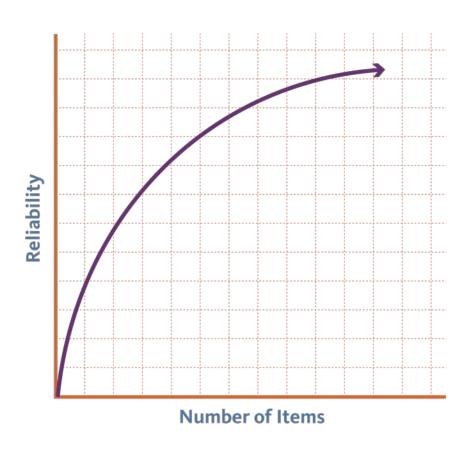




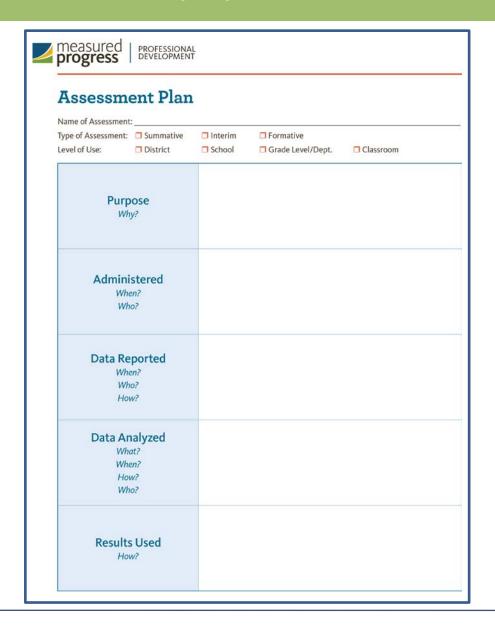
Good Tests are Reliable



Good Tests are Reliable





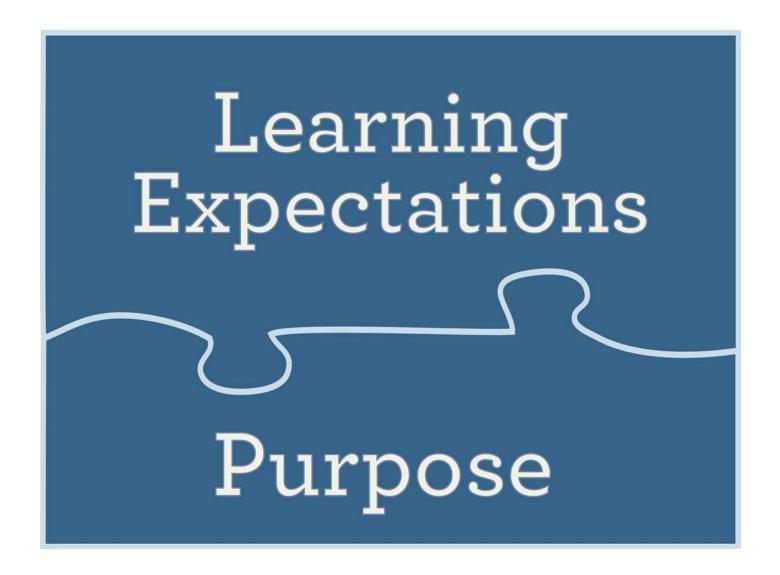








1. Matching tests to their purposes







Four Kinds of Alignment

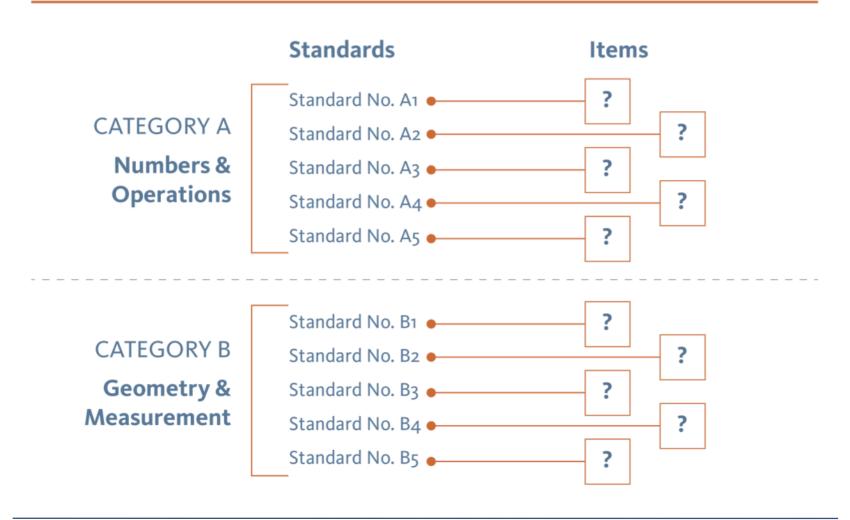


Four Kinds of Alignment

- 1. Categorical concurrence
- 2. Depth of Knowledge
- 3. Balance of Representation
- 4. Range of Knowledge

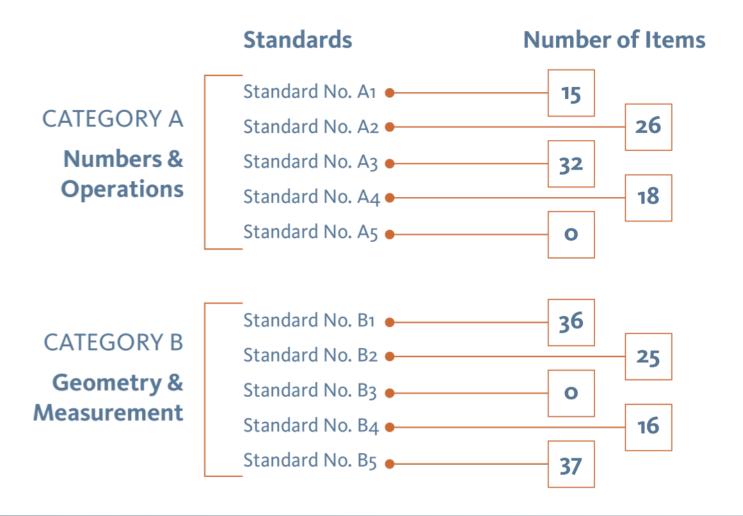


Categorical Concurrence





Categorical Concurrence





Depth of Knowledge

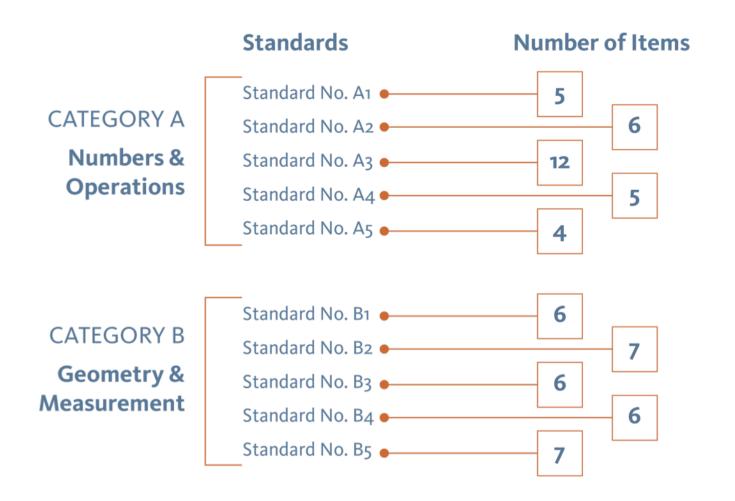


Depth of Knowledge

- 1. Recall and Reproduction
- 2. Skills and Concepts
- 3. Strategic Thinking
- 4. Extended Thinking



Balance of Representation





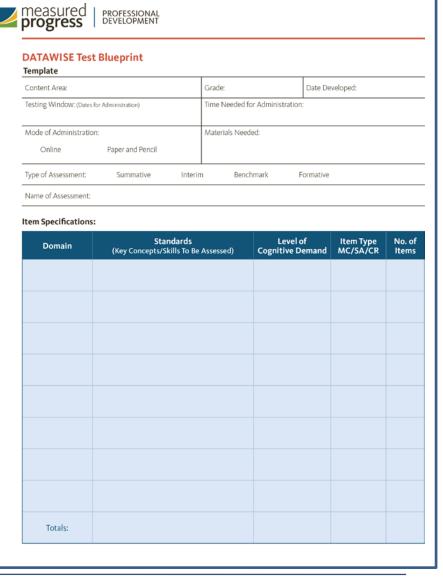
Range of Knowledge

4.4.6 A Data Analysis













Test and test item quality



Construct - Irrelevant Factors

Mr. Zadervak's class is raising money for a field trip to Six Flags in Agawam, Massachusetts.
They need a total of \$165. They earned \$87 at a yard sale they had in October.

How much money do they need to earn to pay for the trip in **March**?

- (a) \$78
- (b) \$82
- (c) \$88
- (d) \$122

Construct - Irrelevant Factors

Mr. Zadervak's class is raising money for a field trip to Six Flags in Agawam, Massachusetts.
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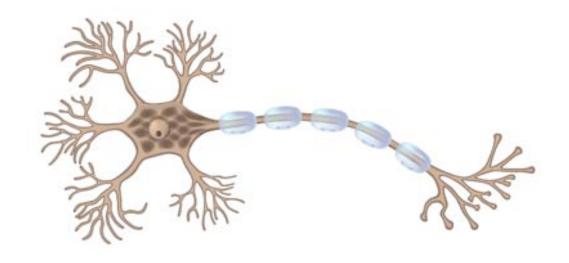
How much money do they need to earn to pay for the trip in March?

- (a) \$78
- (b) \$82
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Mr. Baker's class is raising money for a field trip to Six Flags. They need a total of \$165. They earned \$87 at a yard sale.

How much money do they need to earn to pay for the trip?

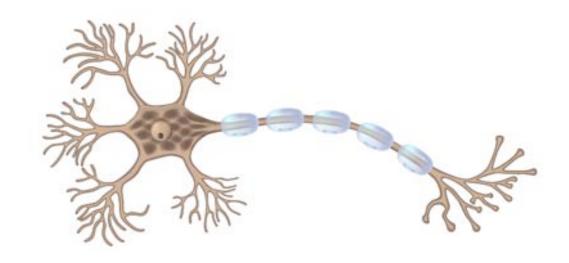
- (a) \$78
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What is the function of a neuron?

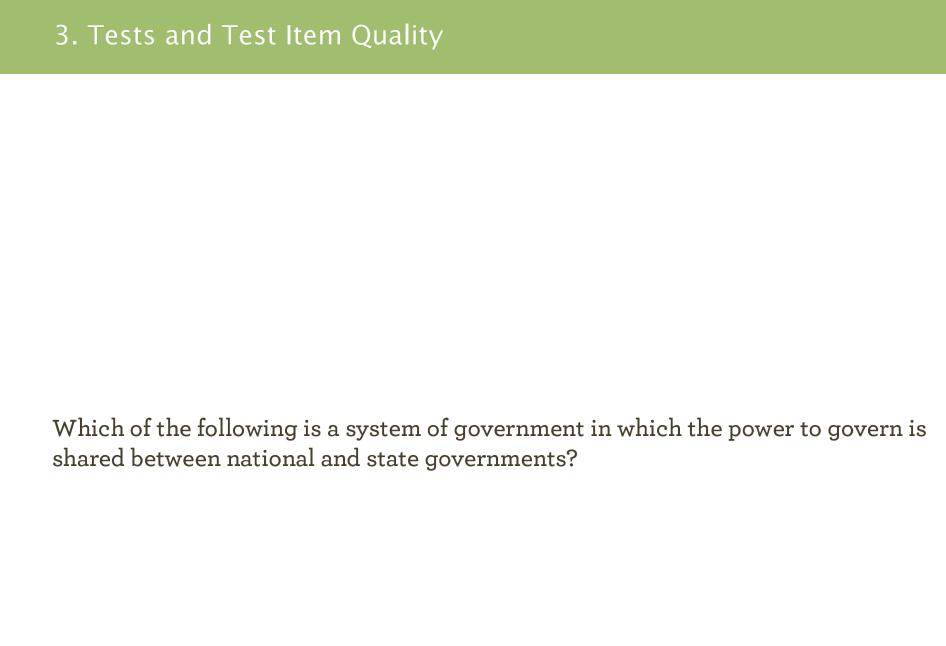
- (a) It takes oxygen to the cells.
- (b) It secretes digestive enzymes.
- (c) It cleanses the blood.
- (d) It receives signals from the internal and external environments.





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Which of the following is a system of government in which the power to govern is shared between national and state governments?

- (a) democracy
- (b) republic
- (c) federalism
- (d) National Football League



Multiple Choice

Which of the following best characterizes a republic?

- (a) majority rule either directly or through representatives
- (b) rule according to law under a constitution
- (c) authority shared between national and state levels
- (d) government controlled by a single ruler



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Open Ended

What is a republic?				



Multiple choice myth:

A multiple choice item should address a single skill or concept.



Multiple choice myth:

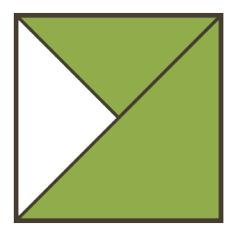
A multiple choice item should address a single skill or concept.

Higher order thinking skills



Sample Constructed Response Item

Dylan shaded part of this square green to represent a fraction.

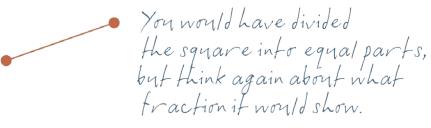


Dylan explained that he shaded the square to represent the fraction ²/₃, because he shaded 2 parts green out of a total of 3 parts.

What is the mistake in Dylan's explanation?











Compare the relative motions of molecules in these three states of matter:

States of Matter Solid Liquid Gas

Also explain how the molecular motion of each affects shape and volume of the substance.

Score	Description		
4	Response demonstrates thorough understanding by accurately describes the relative speed of molecules of the three states and the characteristics of shape and volume of all three.		
3	Response demonstrates general understanding by describing relative speeds of molecules and most characteristics of shape and volume.		
2	Response demonstrates partial understanding by comparing speeds of molecules only or b describing approximately half of the motions and volume/shape characteristics.		
1	Response shows minimal understanding by general statement about relative speed of molecules or about shape or volume OR by providing minimal motion, volume, or shape information.		
0	Response is totally incorrect, irrelevant, or blank.		

Scorer Notes:

- Solid: slowest molecular motion, fixed volume and shape
- Liquid: speed of motion in between others, fixed volume, adapts to shape of container
- Gas: fastest molecular motion, expands to fit available space



Scaffolding



Scaffolding



Carefully evaluate assessment items





Carefully evaluate assessment items







Promoting teacher training for creating and using effective classroom assessments

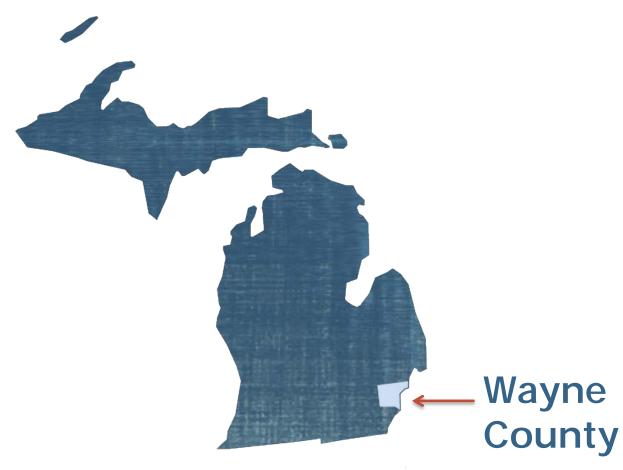


Michigan





Michigan





Michigan











Assessment Literacy

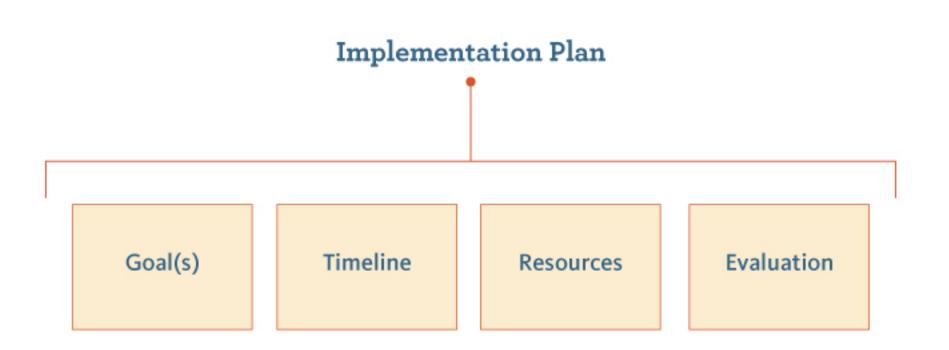
"The knowledge about assessing what students know and can do, how to interpret the results from these assessments, and how to apply these results to improve student learning and program effectiveness."

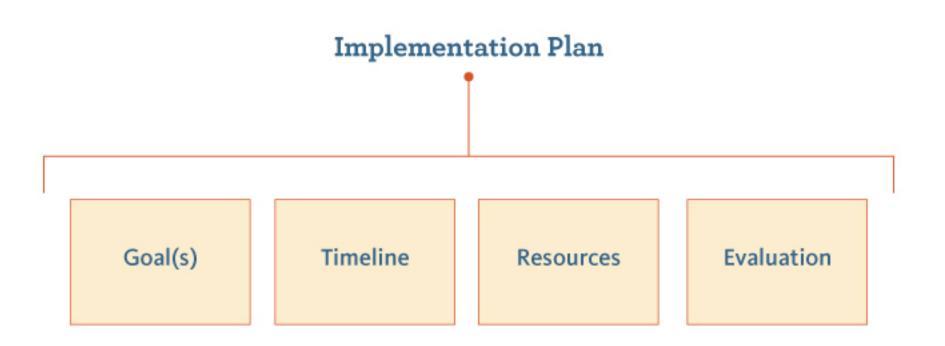
—Webb





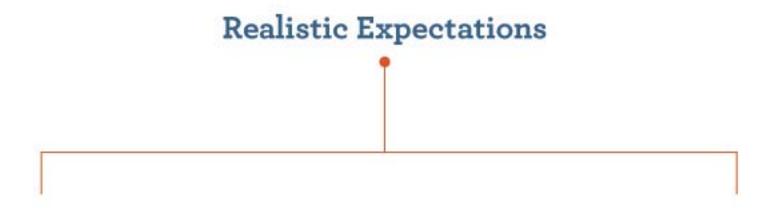




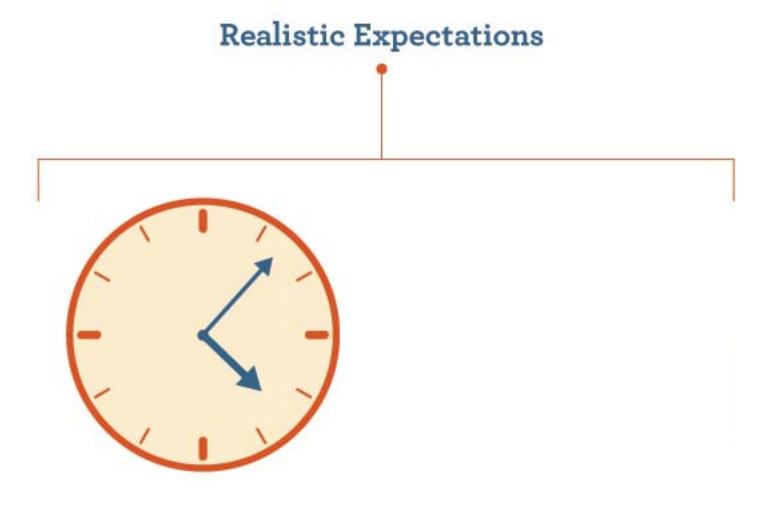


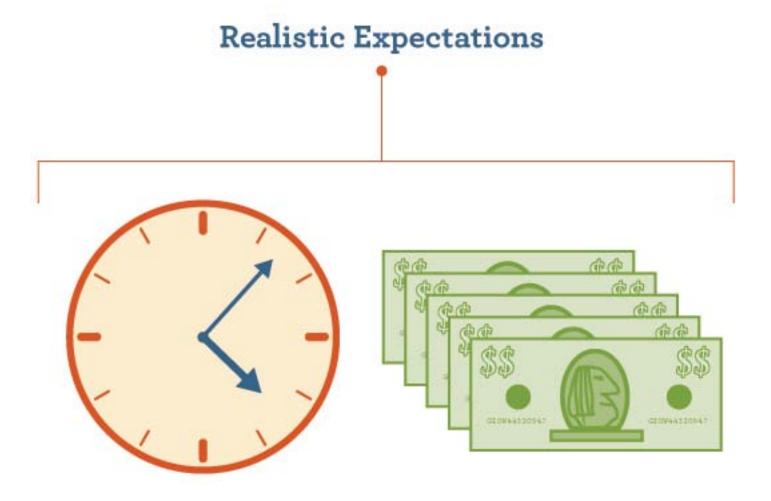
Developing Effective Assessments

















Administrator Support





4. Promoting teac	cher training for ef	fective classroon	n assessments



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This report shows the student's proficiency on a given standard.

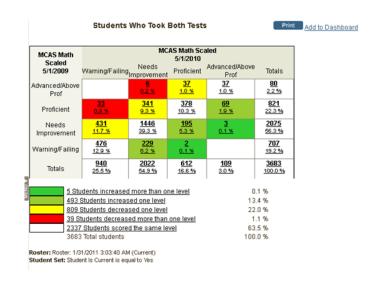
Student is Current is equal to Yes and Teacher - Any Period is equal to 861.

Math 6th Grade Cumulative 2 Topics 8 to 13 and 15 2011 12

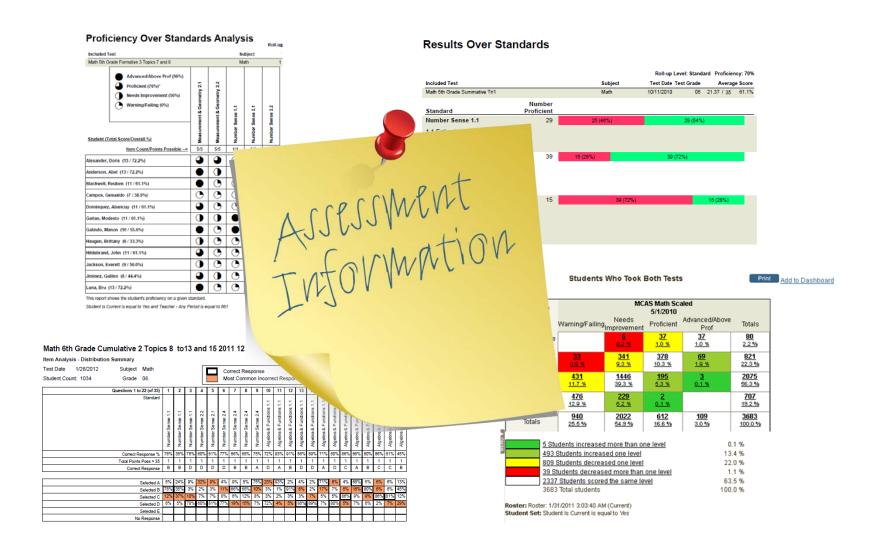
Item Analysis - Distribution	Summary																						
Test Date 1/26/2012	Subject Math				Г	П	Co	orrec	Res	pons	е												
Student Count: 1034	Grade 06						Mo	ost C	omm	ion In	corre	ect R	espoi	nse									
	Questions 1 to 22 (of 35)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Standard										-	-		1	1		60	2	2	2	2	2	2
		Number Sense 1.1	Number Sense 1.1	Number Sense 1.1	Number Sense 2.2	Number Sense 2.1	Number Sense 2.4	Number Sense 2.4	Number Sense 2.4	Number Sense 2.4	Algebra & Functions 1.	ebra & Functions 2.	Algebra & Functions 2.	Algebra & Functions 2.	Algebra & Functions 2.	ebra & Functions 2.	ebra & Functions 2.	Algebra & Functions 2.					
		_		-	_	_	_	_		_	_	_	_	'	_		Alg				Alg	Alg	_
	Correct Response %	78%	35%	78%	60%	81%	77%	66%	68%	_	72%	93%	91%	86%	89%	71%	80%	86%	68%	80%	88%	81%	45%
	Total Points Poss = 35	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Correct Response	В	В	D	D	D	D	В	В	Α	D	Α	В	D	D	Α	D	С	Α	В	С	С	В
	Selected A	5%	24%	9%	32%	9%	4%	9%	5%	75%	23%	93%	2%	4%	2%	71%	8%	4%	68%	5%	6%	6%	13%
	Selected B		35%		2%	3%			68%						2%	17%			16%				45%
	Selected C	12%	37%	10%	7%	7%	8%	6%	12%	8%	3%	2%	3%	3%	7%	5%	5%	86%	9%	9%	86%	81%	12%
	Selected D	6%	5%	78%	60%	81%	77%	19%	15%	7%	72%	4%	5%	86%	89%	7%	80%	5%	7%	6%	2%	7%	29%
	Selected E																						
	No Response																						

Results Over Standards

				Roll-up Leve	l: Standa	rd Proficier	ncy: 70%		
Included Test		Su	bject	Test Date Tes	t Grade	Average Score			
Math 5th Grade Summative Tri1		Ma	th	10/11/2010	05	21.37 / 35	61.1%		
Standard	Number Proficient								
Number Sense 1.1	29	25 (46%	6)		29 (54%)				
1.1 Estimate, round, and mani very large (e.g., millions) and small (e.g., thousandths) num	very								
Number Sense 1.3	39	15 (28%)		39 (721	6)				
1.3 Understand and compute integer powers of nonnegative integers; compute examples a repeated multiplication.									
Number Sense 2.1	15		39 (72%)			15 (28%)			
2.1 Add, subtract, multiply, an with decimals; add with negati integers; subtract positive inte from negative integers; and ve reasonableness of the results.	ve gers erify the								













"The purpose of assessment is to become your own assessor."

Howard Gardner



Requires Ongoing Collaboration





Learning Teams

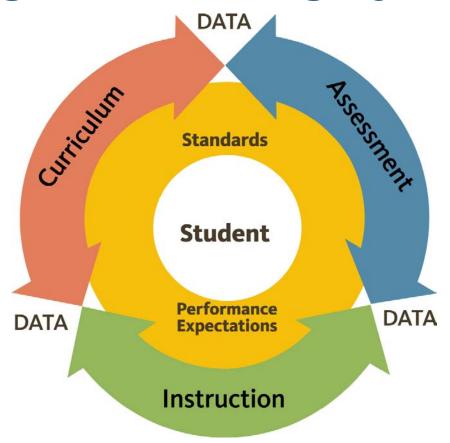


Elementary School: Grade specific

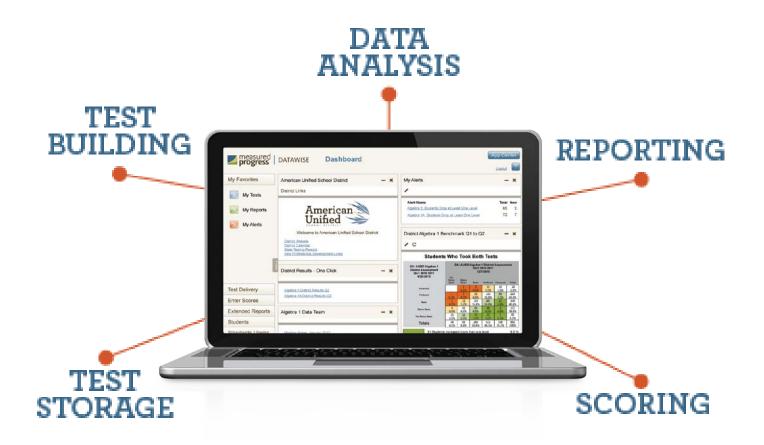
Middle and High School: Content or course specific



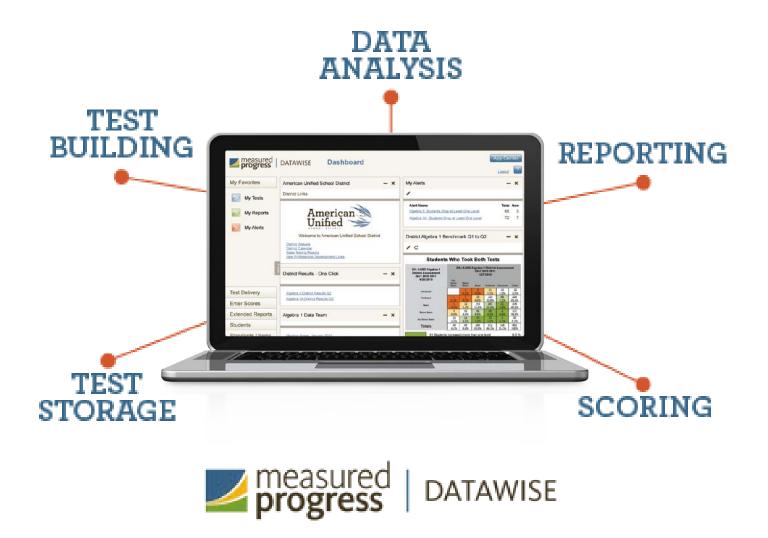
Teaching and Learning Cycle









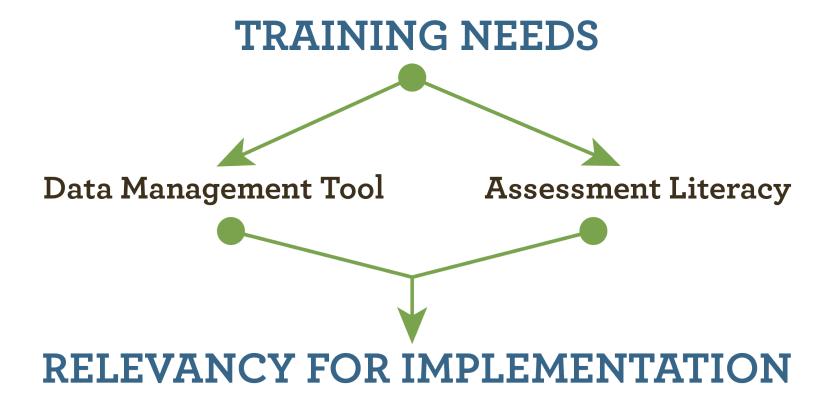




TRAINING NEEDS









Build Teacher Capacity



Build Teacher Capacity



- Enhance assessment literacy skills
- Ensure quality of classroom assessments
- Increase validity of data
- Improve teacher efficacy and student achievement



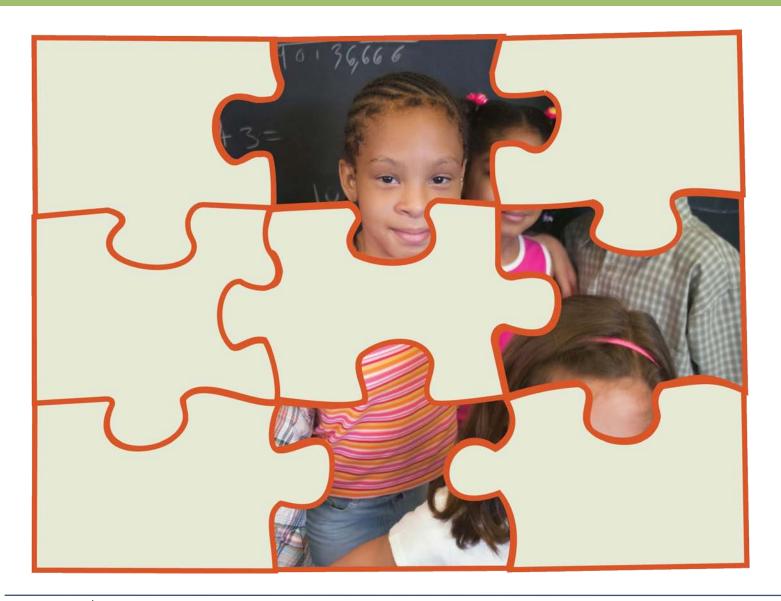






Good tests are reliable and valid.

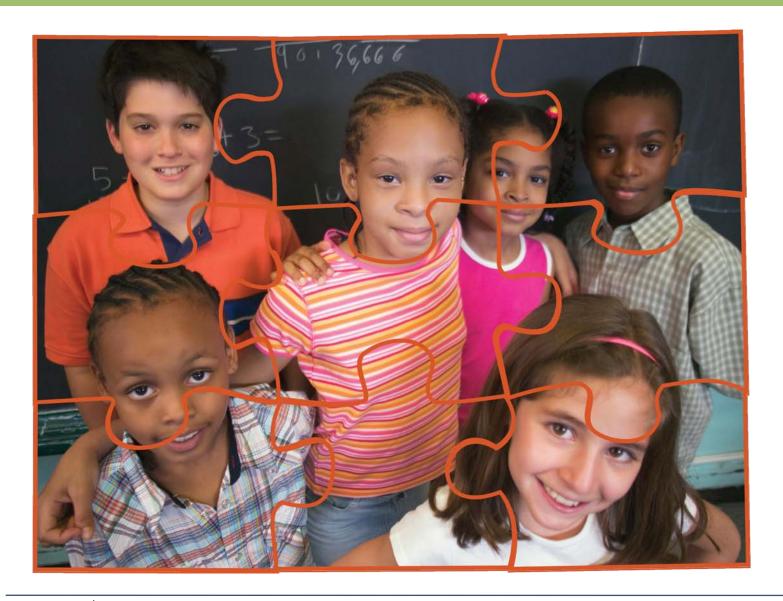
















A&P





Thank you!



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It's all about student learning. Period.