

Building a Perfect Assessment System

Michigan School Testing Conference 2020

http://bit.ly/2RgXuqS



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Session Outcomes

- Strengthen participant knowledge of components of a Comprehensive & Balanced Assessment System
- Reflect on local district techniques to promote quality assessment literacy, systems, and techniques
- Examine artifacts from local districts that reflect sound assessment literacy
- Generate ideas for change in your school/district

How do you define a balanced, comprehensive assessment system?



National Panel on Future of Assessment Practices



Susan Brookhart



Rick Stiggins



Jay McTighe



Dylan Wiliam

Balanced Comprehensive Assessment

Comprehensive assessment systems assess all valued learning outcomes, not just those that are easy to test, and assess learning at all levels of the system, with results and analyses describing learning for individual learners, classrooms, schools, and districts.

Balanced Comprehensive Assessment

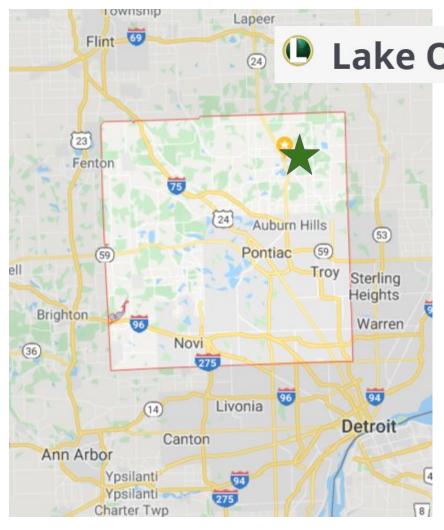
Balanced assessment systems strike a balance in the assessment such that the available information is appropriate and useful for the information needs at the various levels of the system.

	Compreher	nsive Assessment System C	Components	
Short-Cycle Classroom Formative Assessment	Medium-Cycle Formative Assessment	Classroom Summative Assessment (Grading)	Long-Cycle Formative Assessments	District-Level Summative Assessments and Annual State Accountability Assessments
Evidence of learning of lesson-sized learning target(s), generated and used by both students and teachers during the course of learning	Evidence of learning across related lessons or a unit (e.g., weekly diagnostics), for short- term instructional and learning adjustment	Evidence of student achievement at a point in time, for reporting (e.g., unit tests, performance assessments)	Evidence of student learning, typically 2 to 3 times a year, for longer-term instructional planning	Evidence of student achievement of curricular learning outcomes and/or state standards, for reporting (e.g., end- of-course exams, state accountability assessments)



What is your school/district doing to improve the quality of the above assessment components?

Lake Orion



Lake Orion Community Schools

7500 students

6 elementary schools K-5

3 middle schools 6-8

1 high school

1 alternative high school

1 shared entity

Data & Assessment Specialist



Medium-Cycle Formative Assessment Journey

Elementary

K-5



Middle

6-8



High School

9-12



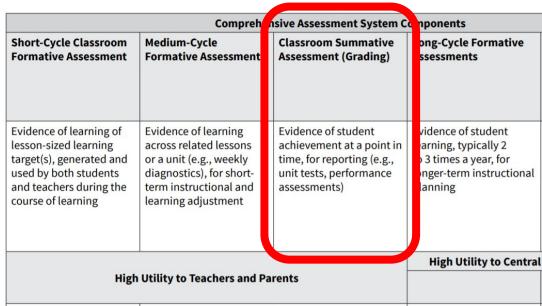
What was the issue?

Exams were written at a low level and the student growth process was less to be desired.

Day 1 exam - PRE

Day 90/180 exam - POST

Student Growth for 300 students



Student Learning
Objective

Shorten the cycle and focus on student learning + Better indicator of student growth for teacher evaluation

	Comprehe	sive Assessment System C	m Components		
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Evidence of learning of lesson-sized learning target(s), generated and used by both students and teachers during the course of learning	Evidence of learning across related lessons or a unit (e.g., weekly diagnostics), for short-term instructional and learning adjustment	Evidence of student achievement at a point in time, for reporting (e.g., unit tests, performance assessments)	Evidence of student learning, typically 2 to 3 times a year, for longer-term instructiona planning		
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2018

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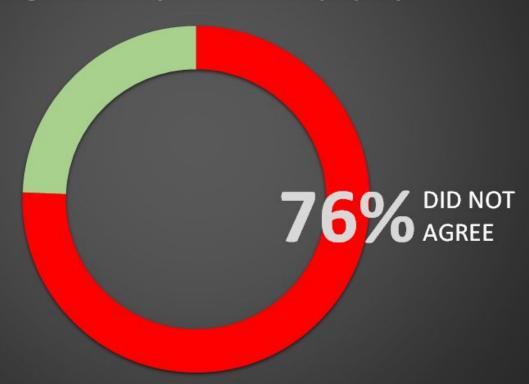
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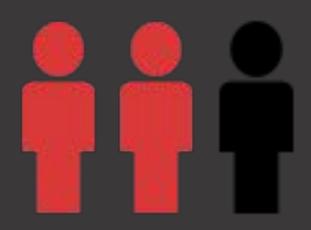
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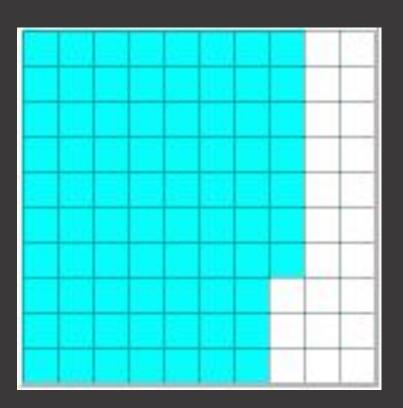
Using the current student growth process, giving the course exam/course assessment during the first week of school allows me to set goals, use the data to assess progress, and adjust instruction properly.





2 out of 3

disagreed that
the current student
growth process
promotes conversation
between colleagues.

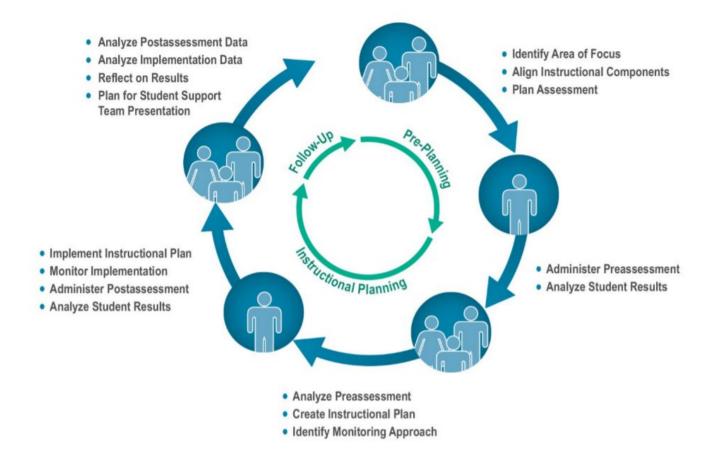


23% Agree

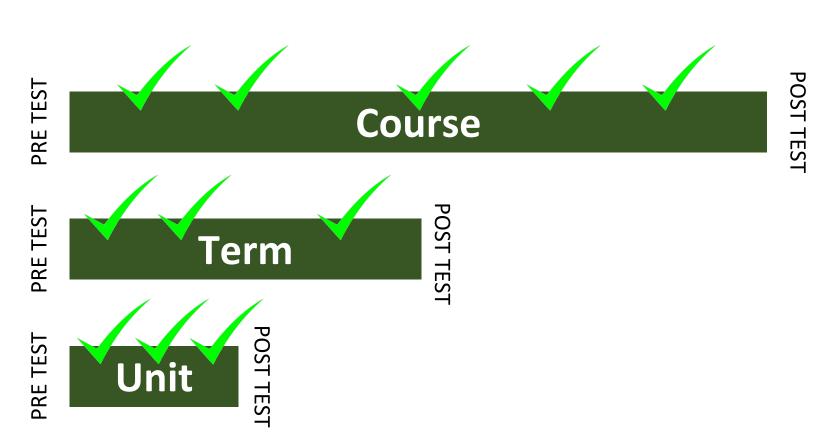
that the current student growth process allows you to focus on only the objectives that are most relevant for the course and future learning.

Student Learning
Objective

At the heart of an SLO is a specific learning goal and a specific measure of student learning used to track progress toward that goal.



SLO timeframe





LOHS – The SLO Process

Identify Essential Standards

Content area team will collectively determine the standards that are essential for success by using the REAL guidelines



Develop the Student Learning Objective

Use the provided template to compose the SLO; this will go into TalentEd as your student growth plan.



Design Assessment

Pre- and post-assessments must be designed to appropriately measure the essential standards. Assessments must have depth and rigor.



Pre-Assess Students & Review Results

Utilize the results to inform and plan further formative assessment(s) and instruction



Instruct Appropriately



Post-Assess Students & Review Results

Use Illuminate reports to review teacher and student growth. (This data will be attached to TalentEd).

Meet with the content area team to guide and plan for the future.



Identify Essential Standards

Content area team will collectively determine the standards that are essential for success by using the REAL guidelines



Develop the Student Learning Objective

Use the provided template to compose the SLO; this will go into TalentEd as your student growth plan.











ASSESSMENT LEVERAGE

This standard provides students with knowledge and skills essential for the next course, class, or grade level. This standard provides knowledge that is useful beyond one unit of study or a single test.

This standard will be assessed on upcoming state or national exams.

https://smsdolc.files.wordpress.com/2018/06/priority-standards.pdf

This standard will provide students with knowledge and skills that will be of value in multiple disciplines.





Design Assessment

Pre- and post-assessments must be designed to appropriately measure the essential standards. Assessments must have depth and rigor.

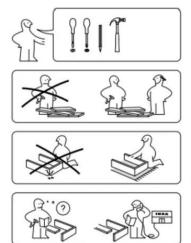


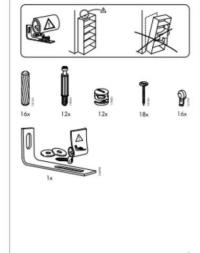
Pre-Assess Students & Review Results

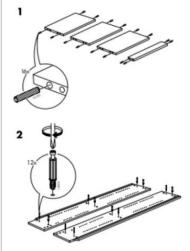
Utilize the results to inform and plan further formative assessment(s) and instruction

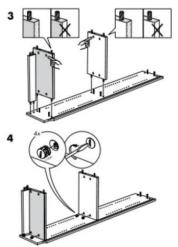


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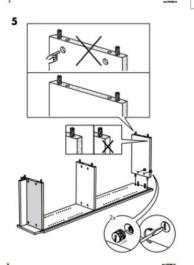


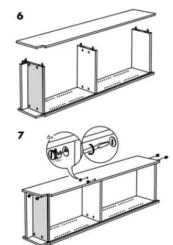


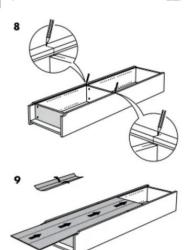




Design and Gloodly \$50 of Southe







PURPOSE OF A TEST BLUEPRINT

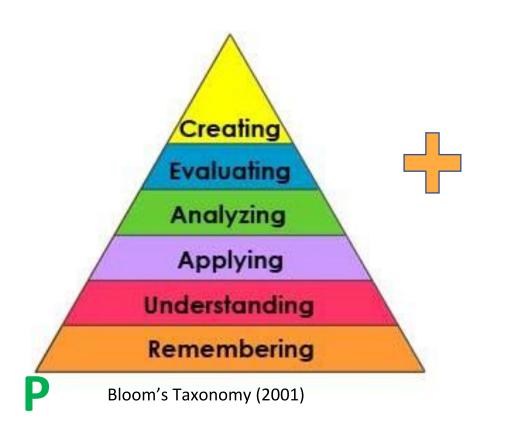
To have a plan before you begin creating/building

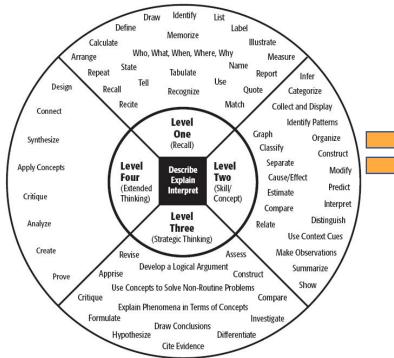
 Confirm in advance the information and knowledge you are planning to assess, which will guide your instructional activities

 Create a balanced assessment with appropriate rigor and accessibility to all students



Determine the Depth of Knowledge (Rigor) for each standard





Norman Webb (2005)



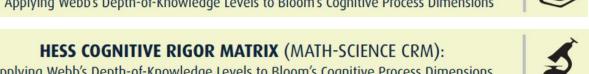
HESS COGNITIVE RIGOR MATRIX (MATH-SCIENCE CRM):



Applying Webb's Depth-of-Knowledge Levels to Bloom's Cognitive Process Dimensions

Revised Bloom's Taxonomy	Webb's DOK Level 1 Recall & Reproduction	Webb's DOK Level 2 Skills & Concepts	Webb's DOK Level 3 Strategic Thinking/Reasoning	Webb's DOK Level 4 Extended Thinking
Remember Retrieve knowledge from long-term memory, recognize, recall, locate, identify	o Recall, observe, & recognize facts, principles, properties o Recall/ identify conversions among representations or numbers (e.g., customary and metric measures)		RM curricular examples with r cience assignments or assessme	
Understand Construct meaning, clarify, paraphrase, represent, translate, illustrate, give examples, classify, categorize, summarize, generalize, infer a logical conclusion), predict, compare/contrast, match like ideas, explain, construct models	Evaluate an expression Locate points on a grid or number on number line Solve a one-step problem Represent math relationships in words, pictures, or symbols Read, write, compare decimals in scientific notation	Specify and explain relationships (e.g., non-examples/examples; cause-effect) Make and record observations Explain steps followed Summarize results or concepts Make basic inferences or logical predictions from data/observations Use models /diagrams to represent or explain mathematical concepts	Use concepts to solve non-routine problems Explain, generalize, or connect ideas using supporting evidence Make and justify conjectures Explain thinking/reasoning when more than one solution or approach is possible Explain phenomena in terms of concepts	Relate mathematical or scientific concepts to other content areas, other domains, or other concepts Develop generalizations of the results obtained and the strategies used (from investigation or readings) and apply them to new problem situations
Apply Carry out or use a procedure in a given situation; carry out (apply to a familiar task), or use (apply) to an unfamiliar task	o Follow simple procedures (recipe-type directions) o Calculate, measure, apply a rule (e.g., rounding) o Apply algorithm or formula (e.g., area, perimeter) o Solve linear equations o Make conversions among representations or numbers, or within and between customary and metric measures	Select a procedure according to criteria and perform it Solve routine problem applying multiple concepts or decision points Retrieve information from a table, graph, or figure and use it solve a problem requiring multiple steps Translate between tables, graphs, words, and symbolic notations (e.g., graph data from a table) Construct models given criteria	Design investigation for a specific purpose or research question Conduct a designed investigation Use concepts to solve non-routine problems Use & show reasoning, planning, and evidence Translate between problem & symbolic notation when not a direct translation	o Select or devise approach among many alternatives to solve a problem o Conduct a project that specifies a problem, identifies solution paths, solves the problem, and reports results
Analyze Break into constituent parts, determine how parts relate, differentiate between relevant-irrelevant, distinguish, focus, select, organize, outline, find coherence, deconstruct	o Retrieve information from a table or graph to answer a question o Identify whether specific information is contained in graphic representations (e.g., table, graph, T-chart, diagram) o Identify a pattern/trend	Categorize, classify materials, data, figures based on characteristics Organize or order data Compare/ contrast figures or data Select appropriate graph and organize & display data Interpret data from a simple graph Extend a pattern	o Compare information within or across data sets or texts o Analyze and draw conclusions from data, citing evidence o Generalize a pattern o Interpret data from complex graph o Analyze similarities/differences between procedures or solutions	o Analyze multiple sources of evidence o Analyze complex/abstract themes o Gather, analyze, and evaluate information
Evaluate Make judgments based on criteria	"UG" – unsubstantiated generalizations = stating an opinion without		o Cite evidence and develop a logical argument for concepts or solutions	o Gather, analyze, & evaluate information to draw conclusions

HESS COGNITIVE RIGOR MATRIX (READING CRM): Applying Webb's Depth-of-Knowledge Levels to Bloom's Cognitive Process Dimensions







https://www.karin-hess. Applying (Hess' Interpretation of) Depth of Knowledge to Porter's Cognitive Demand Categories* com/single-post/2014/4 11/The-Hess-Cognitive HESS WORLD LANGUAGE COGNITIVE RIGOR MATRIX -Rigor-Matrix







Applying Depth of Knowledge Across Different Subjects

Depth of Knowledge can look different across subjects. When it comes to applying DoK tactics with digital assessment items, there are already prebuilt questions for each subject that you can start from. Tim Sitar, Edulastic Certified Content Author, has already outlined some examples of DOK for different subjects. Check them out to get an idea of what you might consider using for your classroom.



https://edulastic.com/blog/depth-of-knowledge/

STUDENT LEARNING OBJECTIVE	Students can analyze how characters advance the theme of a story								
LEARNING PRIORITIES			ASSESSMENT						
Standard/Description of Standard (NGSS, CCSS, Power Standard, ect)	DOK 4 = Extended Thinking 3 = Strategic Thinking 2 = Skill/Concept 1 = Recall	TOTAL POINTS	WEIGHT	Type of Question (MC, CR, explicit response)	DOK 1 Recall	DOK 2 Skill/Concept Application	DOK 3 Strategic Thinking	DOK 4 Extended Thinking	
Describe how characters respond to challenges	2	5	20%	MC & CR	2 pts	3 pts			
Analyze how characters interact with other characters	2	3	12%	MC	1 pt	2 pts			
Demonstrate understanding of key details in a text	1	3	12%	MC	3 pts				
Identify how characters change based on the events in the story	3	6	24%	CR		2 pts	4 pts		
Using textual evidence to support the analysis	3	8	32%	CR	v		8pts		
	227			Total Pts	6 pts	7 pts	12 pts	0 pts	

Weight

24%

28%

48%

Rigor

0%

* At least 50% of the assessment items should be at or above the target DOK level

Design the blueprint

Create the assessment

Plan for instruction





August and September - District time



September/October

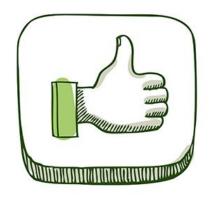
Instruct Appropriately



Post-Assess Students & Review Results

Use Illuminate reports to review teacher and student growth. (This data will be attached to TalentEd).

Meet with the content area team to guide and plan for the future.





- Professional Learning was focused
- Assessments were written with more rigor
- Student Growth completed in timely manner
- Looking at results, reteaching and reassessing

- Most skipped making the blueprint
- Time to meet with all course teams
- Assessment takes longer to grade
- Need to focus next on formative assessment

Bloomfield Hills



Bloomfield Hills Schools

- 1 High School, 3 Middle Schools, & 4
 Elementary Schools
- 5,500 Students
- 58 Native Student Languages
- 320 Teachers, 72% with Master's Degree
- 98.41% Graduation Rate
- \$12,244 Per Pupil Foundation Allowance
- \$185,596 Median Household Income

We are Bloomfield!

Today I will be sharing a glimpse at our current assessment journey to head towards our desired state!

Created a new
District
Assessment
Statement

2016/17 2017/18 2018/19 2019/20



Practices





Michigan Assessment Increased a focus on formative assessment though FAME

Developed a
Common
Assessment
Continuum
Rubric

Developed a
District Data
Protocol and
Data
Resources

2016/17 2017/18 2018/19 2019/20

- ➤ District participation in an Assessment Audit Pilot

 Identified areas to invest time:
 - Formative Assessment
 - CommonAssessmentPractices

Strategic Plan was
Developed and includes
"Implementing multiple ways for students to show evidence of learning"

Year-long
Learning
Specialists
Book Study Assessment
Literacy for
Educators in
a Hurry
Michigan
Assessment
Consortium



Practices



Connections to our identified Characteristics of a High Quality Balanced Assessment System





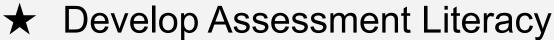




Identified Characteristics of a High Quality Balanced Assessment System

- → Conceptually fits with the district's strategic goals.
- → There are multiple levels of assessment to provide meaningful data at all stages of teaching and learning.
- → Provides relevant and timely data.
- → Designed to meet the needs of the people that need the data such as teachers, administrators, students, and parents.
- → Maximizes the ability of the district to adjust and adapt to the learning needs of ALL students through collaboration, curriculum adjustments, and interventions.





★ Don't underestimate the time it may take to develop a foundational understanding

★ Let the need drive the assessments

★ Support the development of assessments

★ Build capacity for the use of data

★ Incorporate action steps into improvement plans



Connect - Extend - Challenge



How are the ideas and information presented connected to what you already knew?



What new ideas did you get that <u>extended</u> or broadened your thinking in new directions?



What <u>challenges</u> or puzzles have come up in your mind from the ideas and information presented?



This routine helps learners make connections between new ideas and prior knowledge. It also encourages them to take stock of ongoing questions, puzzles and difficulties as they reflect on what they are learning.



