Please sit. Closer to the front Near friends Mear strangers (aka new friends) Presentation: tinyurl.com/nctm18sbg

Building a Flexible Standards-Based Classroom within a Traditional School Setting

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Amanda would not come in Class-100 M "I gotta fart"



Roadmap

- Examine our personal philosophies of grading and assessment
- Discuss the definition of "standards-based grading"
- Preview ways to embed SBG in the most restrictive environments
- Smooth the transition for parents, students, and yourself

Welcome to Traditional High School in Anywhere, USA

What does it mean for a student to pass your class?

Turn and talk
to a partner.

What is the purpose of a final grade in your class?

Sort the slips of paper from most to least important with a partner.

Norming Our Grading System



Content Grades:

This grade represents a student's progress towards mastery of content standards. This could also be called the "traditional" math grade. Typically, these skills are not very transferrable.

Practice Grades:

This grade represents a student's progress towards the math practice standards. These could be seen as an "application" grade. Typically, these skills are transferable to other fields.

Scholarship Grades:

This grade represents a student's progress towards the transferable qualities of being a "productive student". Typically, these skills are transferable to all other academic settings.

Completion Grades:

This grade represents the completion of a specific task. Often an "all or nothing" grade to elicit a specific behavior.



0% 15%

15% 50% 35%



Standards based grading involves measuring students' proficiency on well-defined course objectives 9 9

Tomlinson & McTighe, 2006 Integrating Differentiated Instruction & Understanding by Design

- 1. Based on learning goals and performance standards. One grade per goal.
- 2. Standards are criterion or proficiency-based. Criteria and targets are made available to students ahead of time.
- 3. Measures achievement only OR separates achievement from effort/behavior. No penalties or extra credit given.
- 4. Selected assessments (tests, quizzes, projects, etc.) are used for grading purposes.
- 5. Emphasize the most recent evidence of learning when grading.

Ken O'Connor, 2002 (4th ed in 2017) How to Grade for Learning: Linking Grades to Standards Corwin

- 1. Entries in the grade book are limited to course or grade level standards
- 2. Extra credit will not be given at any time
- 3. Multiple opportunities to demonstrate their understanding
- 4. Grade book entries from multiple points of data emphasizing the most recent
- 5. Multiple opportunities to practice standards independently. Practice assignments are for providing feedback. Practice assignments, including homework, will not be included as part of the final grade

Matt Townsley, 2014

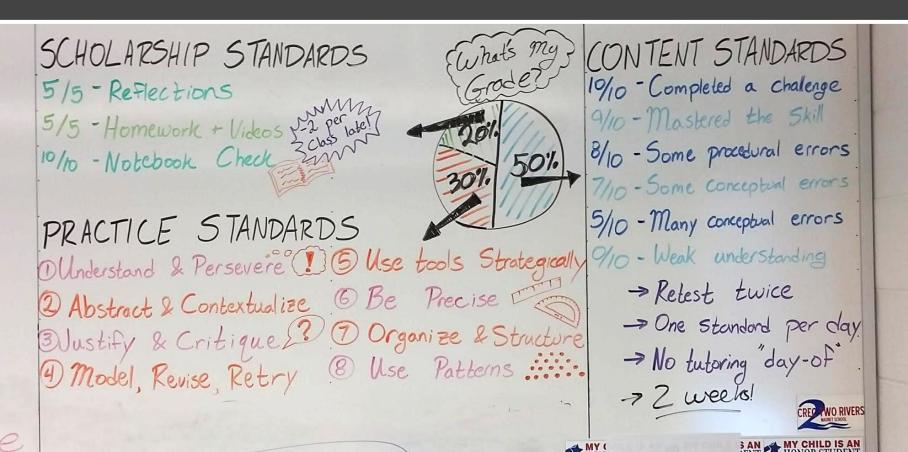
What is the Difference between Standards-Based Grading (or Reporting) and Competency-Based Education?

Competency Works

6 A traditional system done in the spirit of SBG is much, much better than an SBG system done poorly 9 9

Frank Noschese, 2013
The Spirit of SBG
https://fnoschese.wordpress.com/2013/06/26/the-spirit-of-sbg/

"Measures achievement or separates achievement from effort/behavior"



"Standards are criterion or proficiency-based. Criteria and targets are made available to students ahead of time." "No extra credit"

- **10/10 Above Mastery:** you have mastered the skill and correctly applied it to a challenging and novel situation
- **9/10 Mastery:** you have demonstrated a full understanding of the concepts involved, have clearly showed all steps of your reasoning, have used notation correctly, and have no errors
- **8/10 Some procedural errors:** you have demonstrated a full understanding of the concepts involved, but you may have made a procedural error that was not related to this standard
- **7/10 Some conceptual errors:** you have demonstrated partial understanding, but are unclear on one minor concept.
- **5/10 Weak understanding:** you have attempted to answer the question, but are unclear about multiple minor concepts, or one major concept. Student should retake.
- **o/10 No understanding:** You left the problem blank or made no mathematical attempt.

"Standards are criterion or proficiency-based. Criteria and targets are made available to students ahead of time." "No extra credit"

- 10/10 Above Mastery: Wow!
- 9/10 Mastery: Yes!
- 8/10 Some procedural errors: Yes, but...
- 7/10 Some conceptual errors: Kinda...
- 5/10 Weak understanding: Not really.
- o/10 No understanding: Check for a pulse!

Standard 1: I can graph a linear equation in any form

10/10 Above Mastery: All correct with challenge

- 10) If the line Ax + By = C has A > 0, B > 0, and C > 0, what can you conclude about the slope of the line?
 - A) The slope is positive B) The slope is negative
 - The slope is 0 D) There is not enough information
- **9/10 Mastery:** All correct except challenge
- 8/10 Some procedural errors: Reverses the sign of the slope in one graph
- 7/10 Some conceptual errors: Continuously confuses x=3 and y=3
- 5/10 Weak understanding: Continuously graphs the slope and the y-intercept incorrectly.

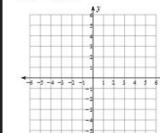


Coordinate Algebra Test (Standards 1, 2, 3)

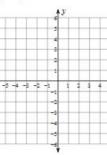
(STANDARD 1: I can graph a linear equation in any form)

Sketch the graph of each line.

1)
$$y = -2x + 4$$



2)
$$x = -3$$

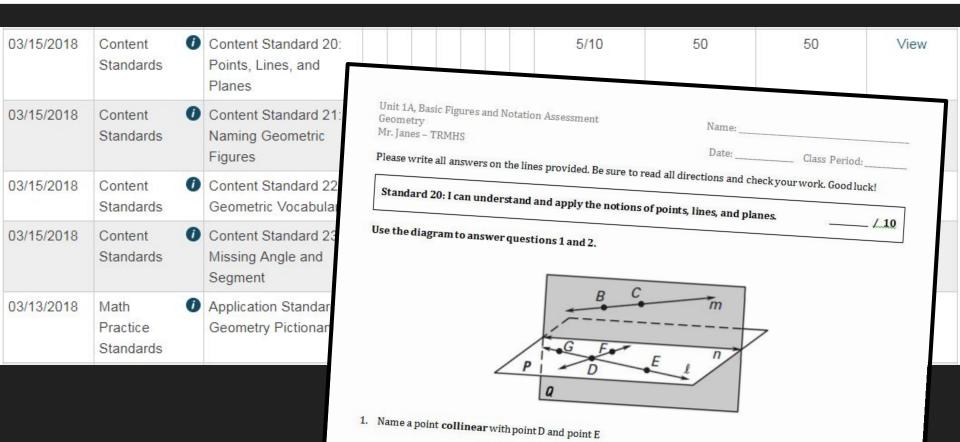


Date

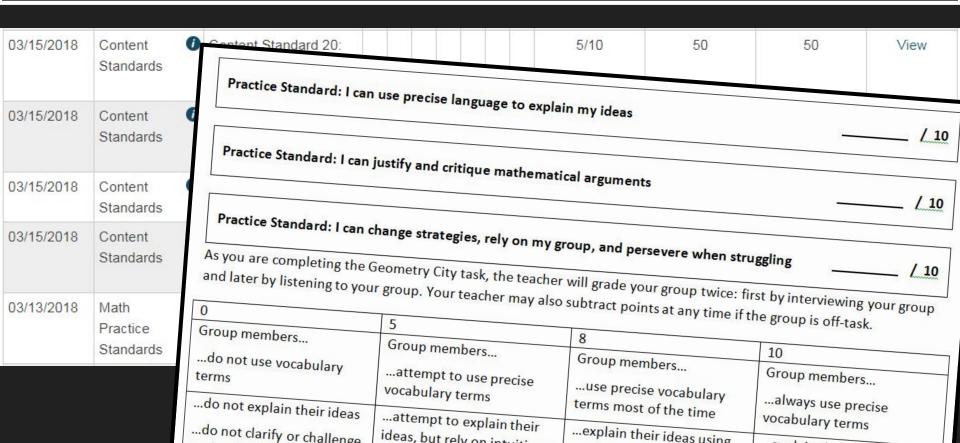
"Standards are criterion or proficiency-based. Criteria and targets are made available to students ahead of time." "No extra credit"



"Based on learning goals & performance standards. One grade per goal"



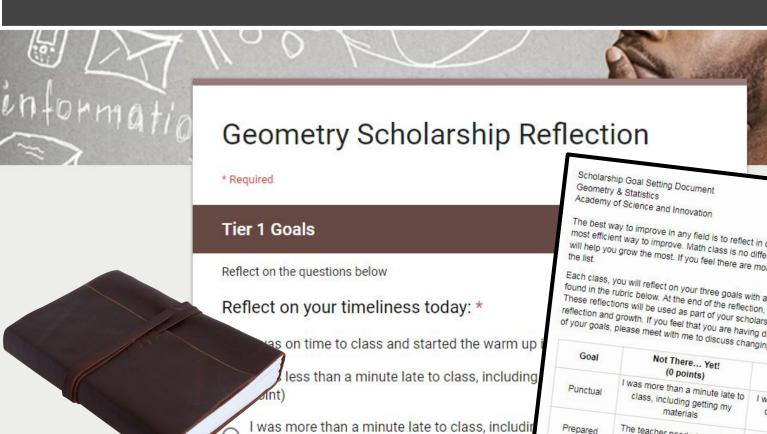
"Based on learning goals & performance standards. One grade per goal"



What constraints might you encounter when assessing with standards?

What solutions would make sense for you, your students, and your families?

"Separates achievement from effort/behavior"



points)

The best way to improve in any field is to reflect in order to analyze your practice, find room for growth most efficient way to improve. Math class is no different! Please read the goals below and identify three will help you grow the most. If you feel there are more than three you want to focus on, choose goals of

Each class, you will reflect on your three goals with a google form. You will be asked to rate yourself using found in the rubric below. At the end of the reflection, you will think about what you can do to improve on These reflections will be used as part of your scholarship grade, and I will conference with you periodical reflection and growth. If you feel that you are having difficulty with your goals, or believe you have master

	Goal	trialiging your goals hose or believe you have				
1		Not There Yet! (0 points)	ariging your goals before the next unit.			
	Punctual Prepared	I was more than a minute late to class, including getting my materials	Getting There (½ point)	I was on time to cla		
+			" do less than a min.			
		The teacher needed to remind me to go get my materials	materials my			
H			I asked the teachest			
	Focused	I was not for	materials or provide extra			

"Separates achievement from effort/behavior"



Turn & Talk

Did you include scholarship standards in your ideal grading system?

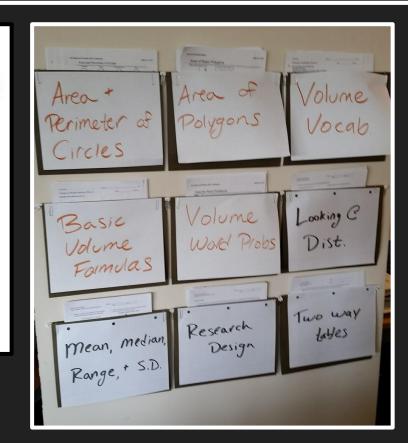
If so, how would you assess them?

"Multiple opportunities to practice standards independently"

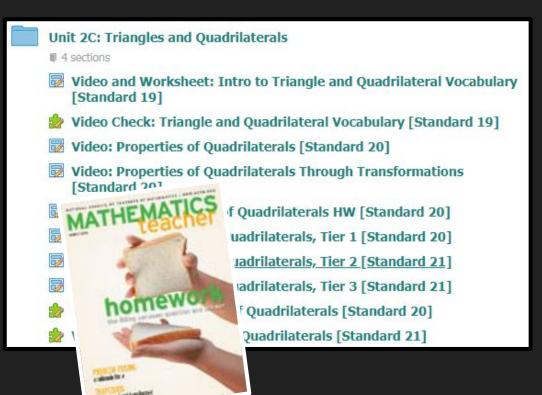


Unit 2C: Triangles and Quadrilaterals

- # 4 sections
- Video and Worksheet: Intro to Triangle and Quadrilateral Vocabulary [Standard 19]
- Video Check: Triangle and Quadrilateral Vocabulary [Standard 19]
- ☑ Video: Properties of Quadrilaterals [Standard 20]
- Video: Properties of Quadrilaterals Through Transformations [Standard 20]
- Worksheet: Properties of Quadrilaterals HW [Standard 20]
- In-Class: Properties of Quadrilaterals, Tier 1 [Standard 20]
- In-Class: Properties of Quadrilaterals, Tier 2 [Standard 21]
- In-Class: Properties of Quadrilaterals, Tier 3 [Standard 21]
- Video Check: Properties of Quadrilaterals [Standard 20]
- Video Check: Algebra and Quadrilaterals [Standard 21]



"Multiple opportunities to practice standards independently"





Turn & Talk

What structures could you add to your class to encourage and facilitate independent practice?

"Multiple opportunities to demonstrate their understanding"

When Can I Retake a Geometry Standard?

Lunch Block	Monday	Tuesday	Wednesday	Thursday	Friday
Lunch 1	Unavailable	Room 319 Janes	Unavailable	Room 319 Janes	Room 319 Janes
Lunch 2	Unavailable	Room 319 Janes	Unavailable	Room 319 Janes	Room 319 Janes
Lunch 3	Unavailable	Room 319	Room 319	Room 319	Room 319

- You can only re-test a standard twice
- 2. Only one standard can be re-tested per day
- 3. You cannot receive tutoring right before you re-test a standard

Assignment Comments:

Attempt 1: 5

Attempt 2: 8

Attempt 3: 9

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IcFadd

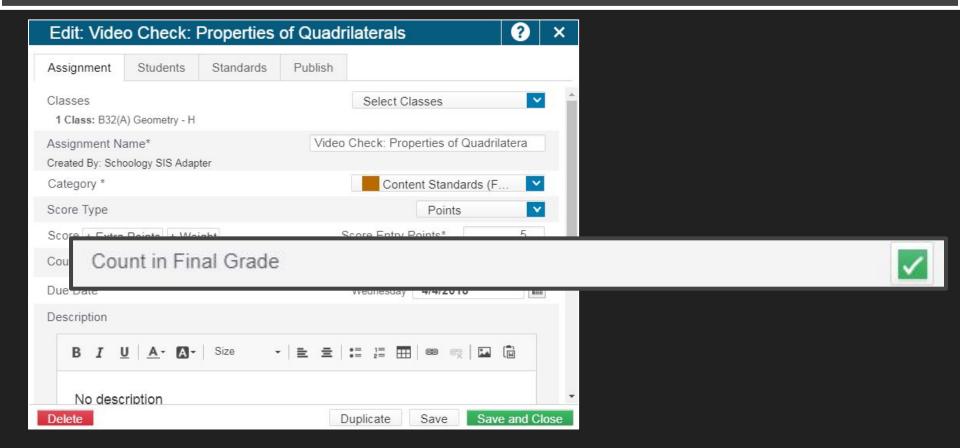
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practice sneet or study guide

"Multiple opportunities to demonstrate their understanding"



"Emphasize the most recent evidence of learning when grading."



What structures could you add to your class to encourage students to persevere and re-try?

Places where Traditional and SBG Clash

- Rubrics with a total point value of 4
- Passing criteria based on number of standards mastered
- Report Cards that don't display categories
- Marking Periods with permanent grades
- Tendency to treat standards in isolation

Making the Transition for Students

- Keep it focused on learning and growth
- Support the conditions necessary for students to succeed
- Make failure cheap
- Make learning accessible
- Celebrate success

Making the Transition for Parents

- Have your policies in ink and write a letter to parents
- Have your ideas ready for Open House
- Showcase the resources students have to succeed
- Use the standards as an asset during parent communication
- Focus on learning and growth

Making the Transition for You

- It's okay to not have standards for the whole year planned out
- It's okay not to grade everything
 - Assess only what you value
 - Use technology (if possible)
 - Focus on feedback, not grades
- It's okay to change policies to meet the needs of your class

Sources of Inspiration

Frank Noschese: https://fnoschese.wordpress.com/category/standards-based-grading-2/

Matt Townsley: http://mctownsley.net/standards-based-grading/

Dane Ehlert: https://whenmathhappens.com/standards-based-grading/

Dan Meyer: http://blog.mrmeyer.com/2007/the-comprehensive-math-assessment-resource/

John Stevens: http://www.fishing4tech.com/fishin-solo-blog/i-failed-my-standards-based-grading-reflection

Sam Shah: https://samjshah.com/tag/standards-based-grading-sbg/

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Dylan Kayne: https://fivetwelvethirteen.wordpress.com/2015/07/28/standards-based-grading-skepticisms

Daniel Schneider:

https://mathymcmatherson.wordpress.com/2013/04/27/assessments-the-collateral-damage-of-sbg/

Bruce Jackson:

https://www.nctm.org/Publications/mathematics-teacher/2014/Vol107/Issue7/Algebra-Homework -A-Sandwic

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Anna Blinstein: http://borschtwithanna.blogspot.com/2017/04/formative-feedback.html

Marissa Walczak: https://laviemathematique.wordpress.com/2017/11/27/weekly-summaries-updated-11-27-17/

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