EFFECTIVE ASSESSMENTS



Session Objectives

Apply concepts from today's presentation in planning concrete next steps towards...

- determining the purpose of assessments in monitoring student learning.
- creating true value in assessing students by properly integrating them into the teaching and learning cycle.
- incorporating the five elements of assessment design in creating balanced and well-designed assessment items which accurately measure what students know and can do.



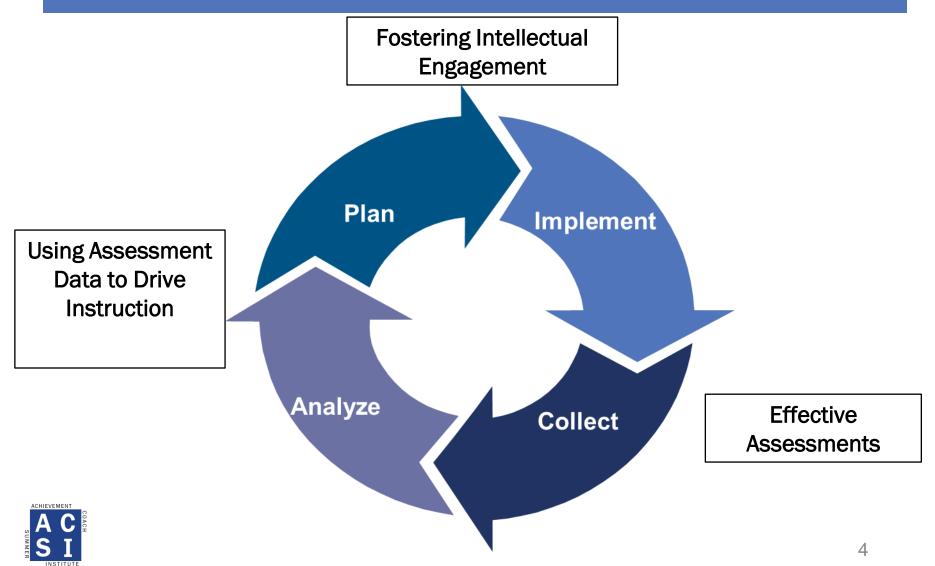
Agenda

INTRODUCTION

- DETERMINING THE PURPOSE OF AN ASSESSMENT
- IMPLEMENTING VALUABLE ASSESSMENT PRACTICES
- DESIGNING ACCURATE ASSESSMENTS



Monitoring and Adjusting in the Teaching and Learning Cycle



Assessments and the Learning Process

Testing: Dipstick versus Learning Tool Make it Stick

"There are few surer ways to raise the hackles of many students and educators than talking about testing. The growing focus over recent years on standardized assessment, in particular, has turned testing into a lightning rod for frustration over how to achieve the country's education goals . . . But if we stop thinking of testing as a dipstick to measure learning-if we think of it as practicing retrieval of learning from memory rather than "testing," we open ourselves to another possibility: the use of testing as a tool for learning."

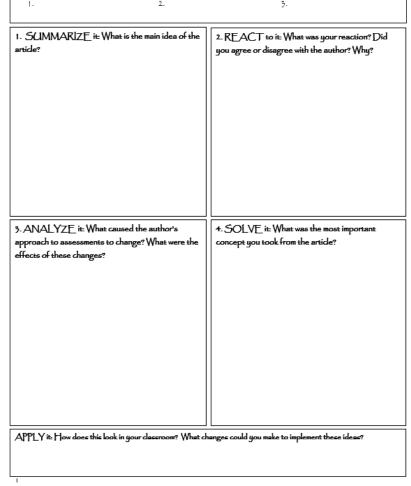
(Brown, Roediger, & McDaniel, 2014)



"Learning to Love Assessment"

Read the first page of the article and your assigned understandings.

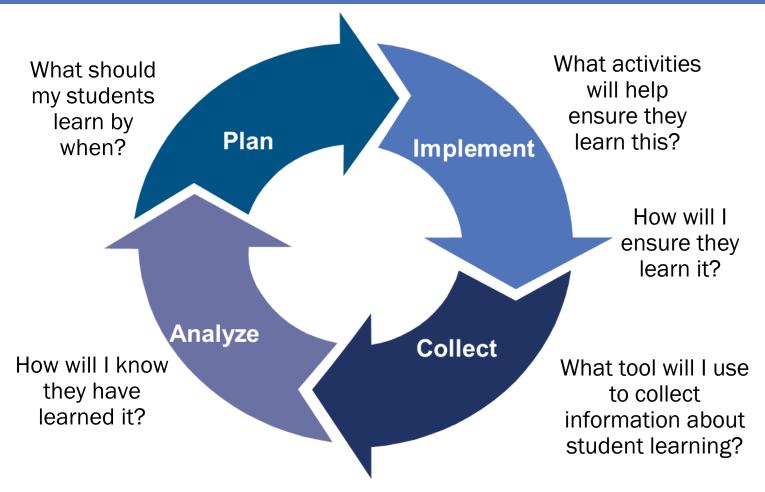
- Complete Boxes 1-4 in the graphic organizer
- Discuss your responses with your group members
- Determine a spokesperson for your group
- Share out
- Apply



PREPARE for it: List 3 words that come to mind when you hear the word "assessment."



Where do Assessments Belong in the Teaching and Learning Cycle?





Effective Assessments

Purpose

Assessments are opportunities to learn what our students know and need.

Value

Transparent assessment practices are valuable to both teachers and students.

Accuracy

Valid assessments are balanced and well designed.



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The Purposes of Assessment

- Think about ways you currently assess student learning throughout a unit of study.
 - Take one minute to write down as many as you can on separate post-its



The Purposes of Assessment

Diagnostic Assessment: Used to determine students' knowledge and skills before a unit of instruction.

Diagnostic Formative

Formative Assessment: Used to monitor student learning and adjust ongoing instruction.

Interim Assessment: Measure students' knowledge and skills on a specific set of academic goals, typically within a particular time frame.

Summative

Assessment Summative Assessment: Measure student mastery of standards at the end of a unit of instruction.

The Purposes of Assessment



The Purposes of Assessment Activity

1. Return to post-its.

 Sort assessments into purposes

2. Reflect:

 Could you have sorted them differently? How and why?



Practice: Determining the Purpose

	Diagnostic	Formative	Interim	Summative
Purpose	To gauge students' knowledge and skills before a unit of instruction	To monitor student learning and adjust ongoing instruction	To measure student progress relative to an academic goal	To measure student mastery of standards at the end of a unit of instruction
Examples				
When administered				
How students use results				
How teachers use results				



Check for Understanding

Using the posters around the room, and table you created, respond to this question using the handout provided:

What are the purposes of assessment?



Key Takeaways

Assessment is a tool for learning when used

- to determine what students know
- to determine what students need to know
- to determine what students learned
- to plan instruction
- to help students gauge their progress



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Implementing Valuable Assessment Practices

Assessment practices which create student ownership of learning include:

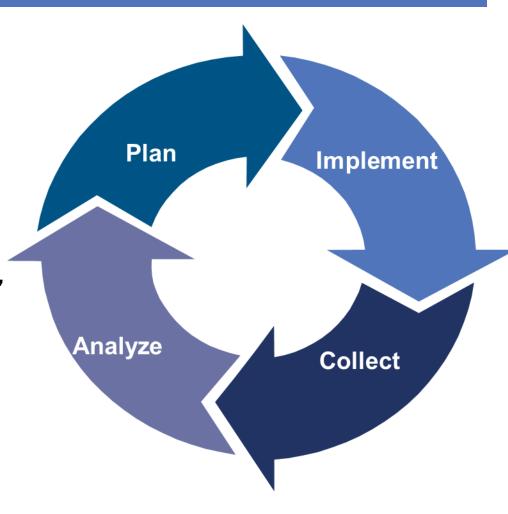
- Incorporating a variety of assessment approaches.
- Continuously providing task- involving feedback.
- Creating opportunities for productive struggle.
- Developing and utilizing common assessments when practical.



Teaching and Learning Cycle

A process by which teachers...

- Plan Develop curriculum, instruction, and assessments
- Implement Teach
- Collect Gather indicators of student progress
- Analyze Identify trends, patterns, and misconceptions; decide what needs more reinforcement or reteaching
- Plan Refine the plan based on analysis of the data





Let's Learn about the Olympics





We're off to the Olympics!





What do we Know?

1.Kahoot.it

2. Type in game pin #

3. Type your first name and first letter of your last name



Objectives

- Describe places of interest in Rio De Janeiro.
- Identify current political issues and how they are impacting the games.
- Identify current headlines and how they are impacting people's interest in the games.



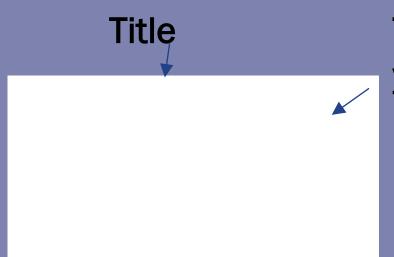
Z Chart

Three important ideas associated with your topic

1.

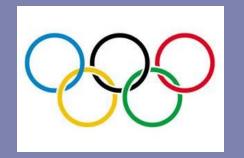
2.

3.



The "gist" of your topic

Picture representation(s) of your topic





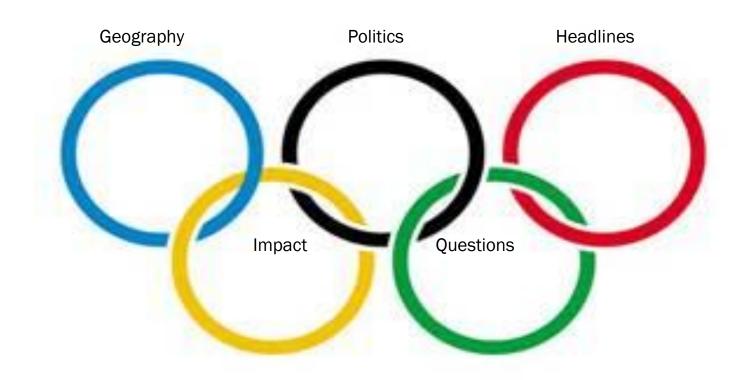
Why is this important?

With Your Group...

- 1. Research
- 2. Complete "Z" Chart
- 3. Plan Presentation
- 4. Practice and Critique
- 5. Refine

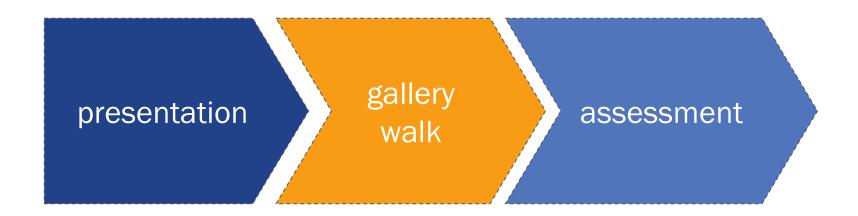


Graphic Organizer



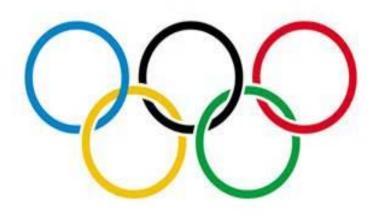


Here we go!





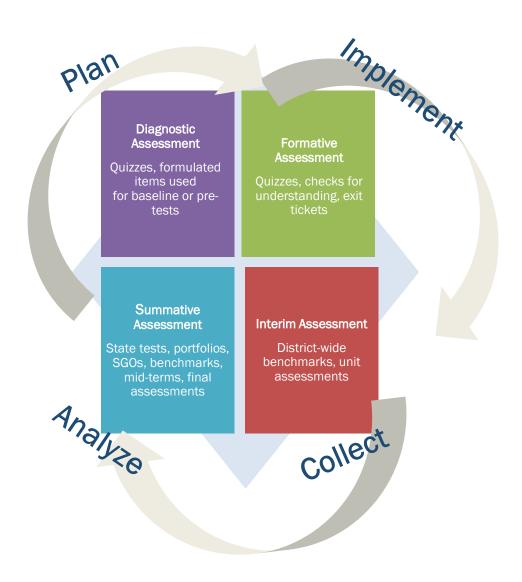
Show us what you know!



 Write a one minute essay on what you've learned. Be sure to include how the politics, places of interest and headlines are impacting the games.

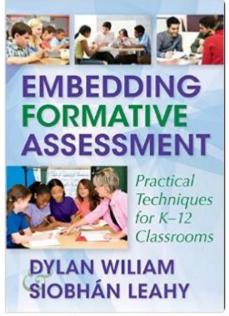


Monitoring and Adjusting Instruction



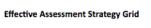


Incorporate a Variety of Approaches



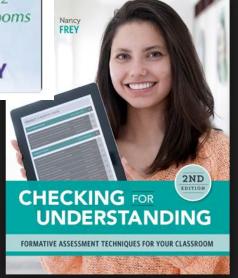
Resources we love for assessment strategies!

Review the Effective Assessment Strategy Grid



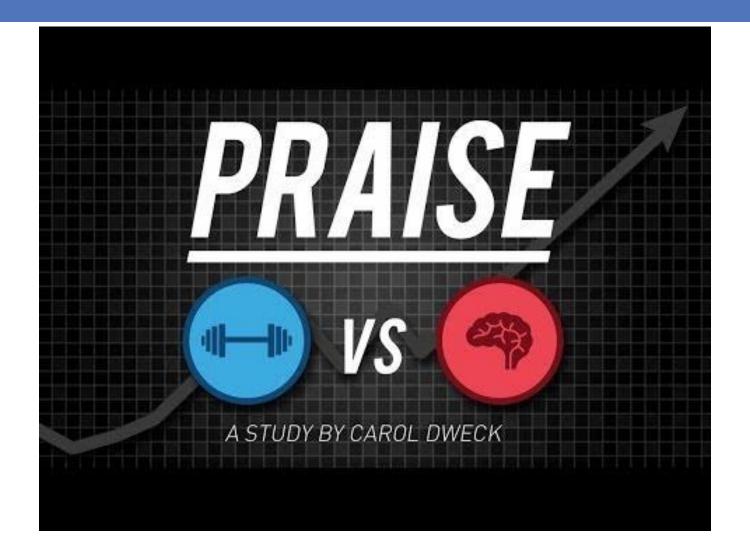
Oral Language

Accountable Talk
Noticing nonverbal cues
Value lineups
Retellings
Think-Pair-Share
Think-Pair-Square
Novel Ideas Only



Indicate one new strategy you would like to use and explain how you would use it in your classroom.

Provide Valuable Feedback





Feedback Activity

Feedback Should Be More Work For The Recipient Than The Donor

- Focus on the reaction of the students, not the feedback.
- Develop a growth mindset in your students.
- Design feedback as part of a system.
- Focus more on longer time for feedback.
- Concentrate on personal bests, not efforts or ranks.
- Make feedback into detective work.
- Provide comment-only grading.
- Use focused feedback.

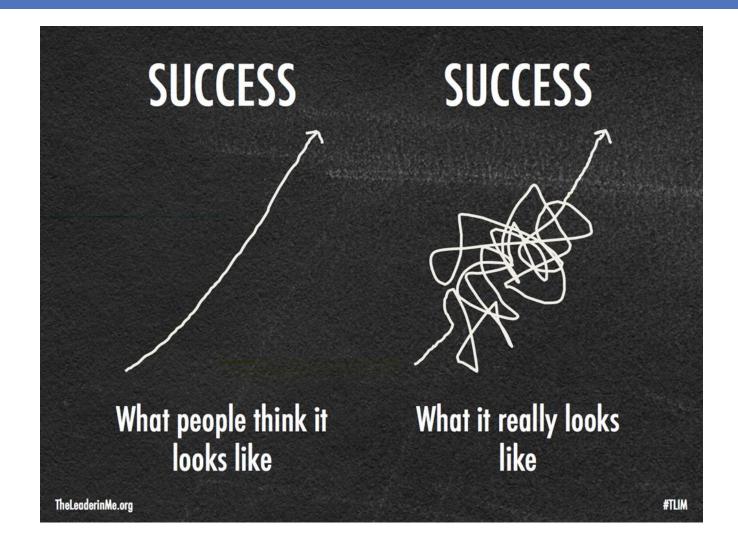


Provide Valuable Feedback

The Praise Makeover				
Before	After			
"Great Job!"	"I like the way you tried all kinds of strategies on this problem until you finally got it."			
"I'm proud of you"	"You went back to check your work – that extra step was a great idea."			
"You got an A!"	"Those extra problems you did really made a difference."			
"You're so smart"	"It was a long, hard assignment, but you stuck to it and got it done. That's great!"			
"Don't worry, some people just aren't good at math"	"I like the effort you put in on this. I know you're frustrated, but we'll keep at it and find your best way to master this."			



Productive Struggle Leads to Success





Create Opportunities for Productive Struggle

Productive Struggle in the Classroom

What is the teacher doing?

What are the students doing?

What else do you notice? (materials, resources, use of space and time, etc.)



Productive Struggle Leads to Student Ownership

Active learning methods such as self-quizzing, elaboration, and reflection cause students to:

- Reconsolidate memory
- Create mental models
- Broaden mastery
- Foster conceptual learning
- Improve versatility
- Prime the mind for learning



Common Assessments

Common assessments help to:

- provide guidance to drive instruction in more focused way
- provide consistency within departments
- show students that they are being held to high expectations/standards
- consolidate learning by bringing it all together



Check for Understanding

Which assessment practice is your area of strength and which is your area for growth?

Variety
Feedback
Productive Struggle
Common Assessments



Key Takeaways

Assessment practices which create student ownership of learning include:

- Incorporating a variety of assessment approaches.
- Continuously providing task-involving feedback.
- Creating opportunities for productive struggle.
- Developing and utilizing common assessments when practical.

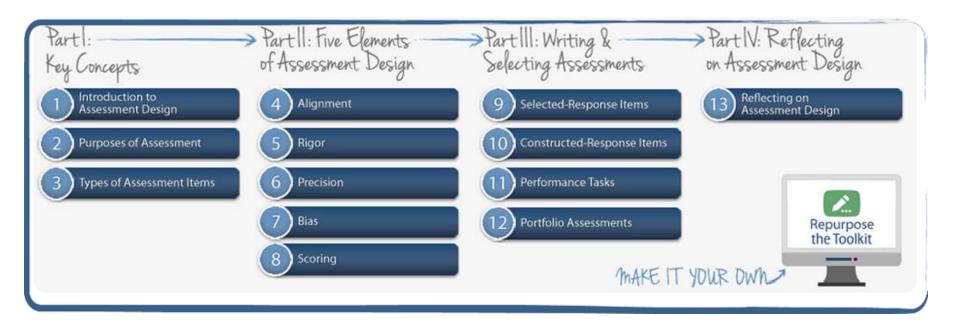


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The Assessment Design Modules



- 4 parts divided into 13 modules:
 - Part I: Key Concepts
 - Part II: Five Elements of Assessment Design
 - Part III: Writing & Selecting Assessments
 - Part IV: Reflecting on Assessment Design



Assessment Design Checklist

ASSESSMENT CHECKLIST FIVE ELEMENTS OF ■ QUESTIONS ASSESSMENT DESIGN ALIGNMENT □ Is each assessment item aligned with the standard you intend to teach and measure? RIGOR □ Does the level of rigor of each assessment item match the level of rigor of the skill you intend to measure? Does the assessment measure a range of student thinking and understanding so that it measures what all students know and can do? PRECISION ■ Are all items well formatted? ☐ Are the instructions for the assessment and each assessment item precise so that students understand where and how to address the item? □ Are all assessment items free of typos and factual errors? ☐ Does the assessment and each assessment item have all of the information that students will need to demonstrate their knowledge and skills? ☐ Does the assessment and each assessment item indicate how many points each assessment item is worth (if relevant) and how much time students have to complete ☐ For multiple-choice items, is the prompt framed in the positive? Are the choices consistent in form, content and length? Are they ordered in a logical sequence? Are ☐ For performance tasks and portfolio assessments, have you considered the "what, who, how and when" factors (if applicable)? BIAS ☐ Did you ensure that each assessment item does not provide an advantage or disadvantage to any group of students because of their personal characteristics, such as race, gender, socioeconomic status or religion? **SCORING** ☐ Have you developed a well-designed answer key(s), scoring guide(s) and/or rubric(s), ☐ Do your answer keys and scoring guides include rationales for why choices are correct or incorrect? Do they include exemplar answers (if applicable)? ☐ Are the dimensions in your rubric aligned to the standard(s) you will assess? Are they ☐ Does each descriptor in your rubric include a precise description of student performance for a particular dimension and performance level? Is each descriptor discrete from the descriptor in the performance level before and after it? ☐ Are all teachers who are scoring your assessment using the same criteria?



The Assessment Design Blueprint

ASSESSMENT BLUEPRINT

1. Determine the Primary Purpose of the Assessment

2. Standard(s) (one per row)	3. Skill(s) (one per row)	4. Level(s) of Rigor	5. Possible Type(s) of Items

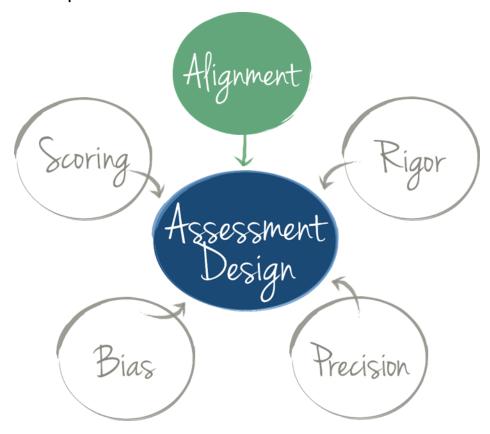
6. Write	6. Write and/or Select Assessment Items				
ltem#	Standard(s) and/or Skill(s)	Type of Item	Level of Rigor	# of Points	% of Assessment
TOTAL					

ASSESSMENT



Elements of Assessment Design: Alignment

An assessment aligned with standards measures student performance on those standards.





Alignment: Unpacking the Standard

Does each assessment item align with the standard you intend to teach and measure?

1. Read the Standard.

Compare and contrast treatments of the same topic, or of various perspectives, in several primary and secondary sources; analyze how they relate in terms of themes and significant historical concepts.

- 2. Identify and clarify meanings of terminology used within the standard.

 RH.9-10.9: Compare and contrast treatments of the same topic, or of various perspectives, in several primary and secondary sources; analyze how they relate in terms of themes and significant historical concepts.
- 3. Nouns = content necessary, while verbs = what students need to do.
 - Verbs = compare, contrast, analyze, relate
 - Nouns = treatments, "same topic," "several sources" primary, and secondary, themes, significant historical concepts



Alignment: Determine the Skills and Assessment

- 4. Determine skills necessary for students to fully demonstrate understanding of standards.
- Summarizing articles; Compare and contrast over multiple sources;
 Differentiate primary and secondary sources; Recognize point of view/bias
- 5. Discuss rationale for each skill.
- 6. Identify formative, diagnostic, interim and summative assessment strategies that could be used to assess this standard.
- Non-content related articles to compare and contrast (high interest)
- Close reading activity, Station activity (analyzing documents from different sources/points of view: Abolition of Slavery, Gettysburg Address, New York Times article, Closure with question about each of the statements)
- Unit test (open ended question)
- Timed Document Based Question
- Research Paper

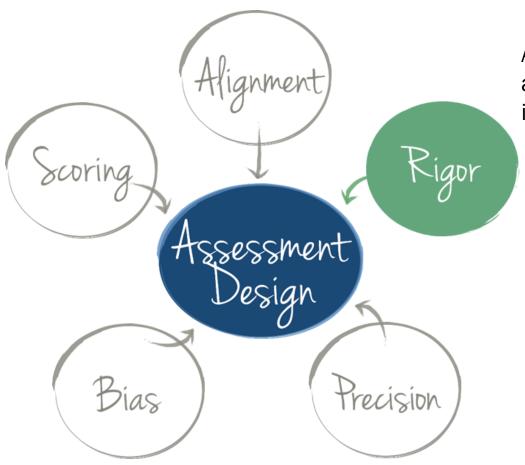


Alignment: Determine the Skills and Assessment

Unit: Standard Skill(s) **Assessment Type** Assessment Strategy/Tool (diagnostic, formative, interim, summative)



Elements of Assessment Design: Rigor



An assessment has "an appropriate level of rigor" if...

It includes items that match the level of rigor of the skill or skills you intend to measure.

It measures a range of student thinking and understanding so that it can determine what all students know and can do.



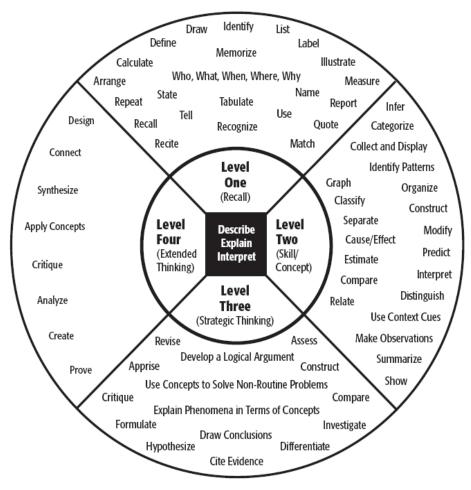
Understanding Rigor

Range of Rigor/Depth of Knowledge			
Why does it matter?	An assessment that accurately reflects the range of rigor of the course and instruction increases the validity of inferences educators can make about student learning. Provides access points to students of varying ability.		
What does it look like?	The assessment requires a range of thinking skills as proposed by Webb's Depth of Knowledge (DOK) that reflects the rigor of the course.		



Identifying Level(s) of Rigor

Depth of Knowledge Wheel (DOK)





Practice: Identifying the Level of Rigor

Activity: Turn and Talk

Work with a neighbor to explain which level of the DOK wheel each activity represents and why it fits that level.

Choose two insects that you have observed and compare them.

Level 1: Recall and Reproduction

Create an in-depth character analysis, including textual and historical support for choices and perform said character.

Identify two examples with a top in the property of the proper



Rigor and Questioning Research

How does high quality questioning promote learning?

- Stimulate thinking
- Clarify understanding
- Reveal misconceptions
- Deepen understanding
- Hear alternate views
- Make connections



Rigor and Questioning

QUESTION CREATION CHART (O Chart)

	Is	Did	Can	Would	Will	Might
Who						
What						
Where						
When						
How						
Why						

Create questions by using one word from the left hand column and one word from the top row.

The further down and to the right you go, the more complex and high-level the questions.



Rigor and Questioning

Does each assessment item align with the standard you intend to teach and measure? Does the assessment item reflect the appropriate level of rigor?

RH.9-10.9: Compare and contrast treatments of the same topic, or of various perspectives, in several primary and secondary sources; analyze how they relate in terms of themes and significant historical concepts.

- What is the main disagreement between the two authors?
- What would author X say in response to author Y?
- Why might these two authors have different views on the same topic?



Rigor and Questioning Activity

Group Activity:

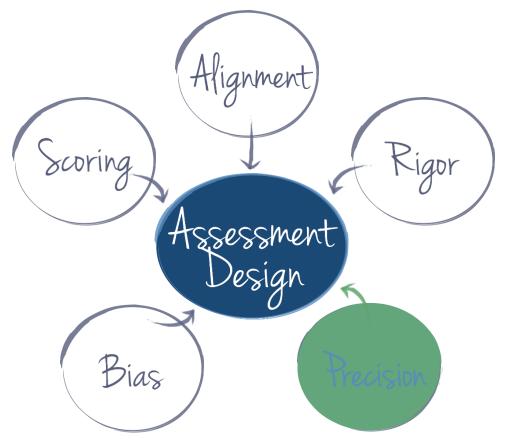
Working in your small group, **create 3 - 4 questions** you could use to assess the standard you unpacked on the Alignment Tool.

Questions should represent a range of rigor.

Use the **Q Chart** and the **Depth Knowledge Wheel** to help with this.



Elements of Assessment Design: Precision



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



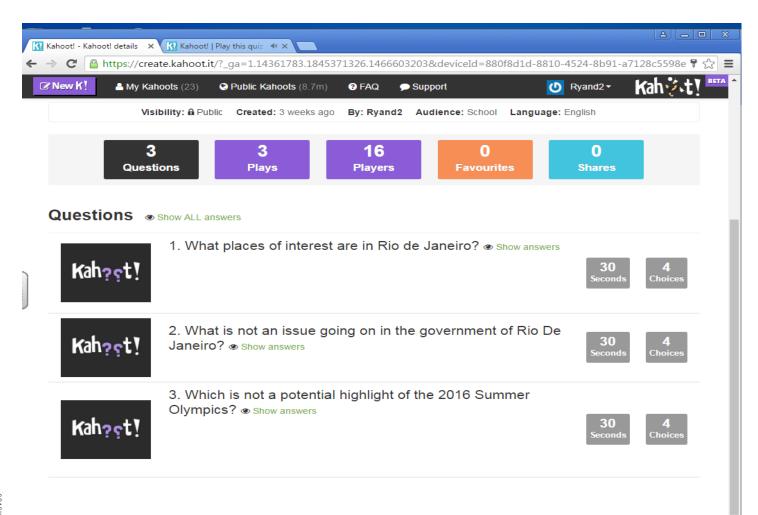
Key Concepts in Precision

Well-designed assessments...

- 1. are formatted in a logical order
- 2. do **NOT** contain typos or factual errors
- 3. contain accurate and clear instructions
- 4. include all of the information students need to demonstrate their knowledge and skills



Key Concepts in Precision





How could this item be constructed to be made more precise?

Marcus has 34 marbles. He puts an equal number of marbles into four bags. For 1a–1d, choose Yes or No to indicate whether each number sentence could be used to find the number of marbles that Marcus puts in each bag.

a.
$$36 \times 4 =$$

b.
$$36 \div 4 =$$

c.
$$36 x = 36$$

d.
$$36 \div = 36$$



How could this item be constructed to be made more precise?

Marcus has 34 marbles. He puts an equal number of marbles into four bags. For 1a–1d, choose Yes or No to indicate whether each number sentence could be used to find the number of marbles that Marcus puts in each bag.

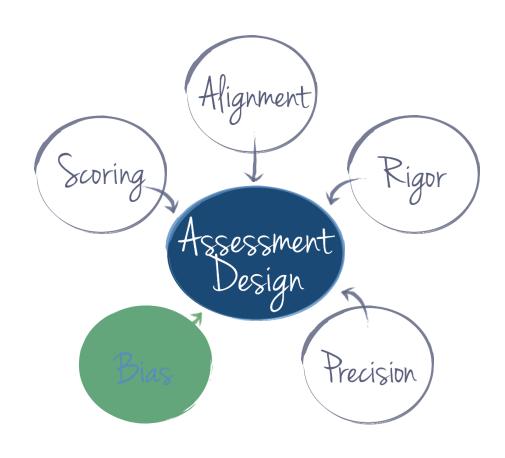
a.
$$36 \times 4 =$$
b. $36 \div 4 =$
c. $36 \times 4 =$
 $36 \times 4 =$



Elements of Assessment Design: Bias

An unbiased assessment

- measure students' knowledge and skills
- do not measure differences amongst students because of their personal characteristics





Is this an Example of Bias?

Which of the following measures could be the length of a typical hole in a golf course?

- a. 300 inches
- b. 300 feet
- c. 300 yards
- d. 300 miles

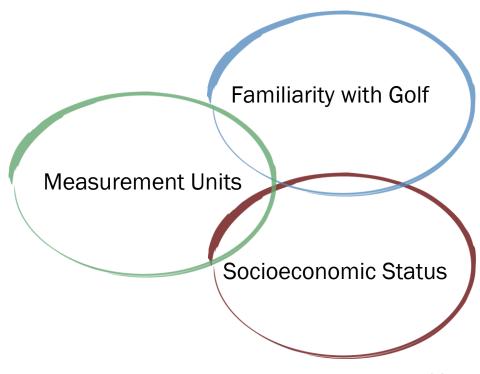


Is this an Example of Bias?

Which of the following measures could be the length of a typical hole in a golf course?

- a. 300 inches
- b. 300 feet
- c. 300 yards
- d. 300 miles

What is the source of bias?





Detecting Bias

- Remember, bias does not mean that assessment items cannot include any references to topics that may interest some groups of students and not others. That would make designing assessments nearly impossible.
- It's difficult to detect your own bias.



Precision and Bias Activity

Go back to the questions you created in the previous activity. Trade.

Evaluate each question for precision and bias.

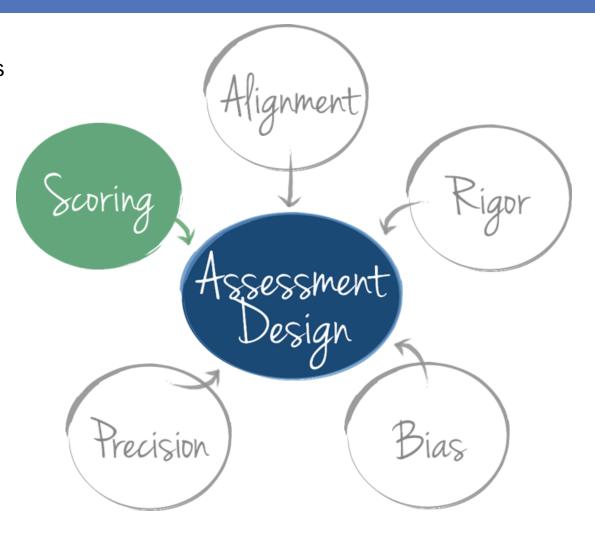
Were any of the questions biased in any way?

How could they be improved?



Elements of Assessment Design: Scoring

An assessment that has an appropriate scoring strategy measures students' knowledge and skills, not how the assessment is scored or who scores it.





Effective Scoring Methods Include...

Scoring

Answer Keys

Rubrics



Scoring Options













Scoring Options

Go back to the **list of assessment strategies** you created earlier.

Choose one and decide the best possible scoring option. Be prepared to explain why you chose this scoring option.

How could another scoring option change the data?



Check for Understanding

ASSESSMENT CHECKLIST

FIVE ELEMENTS OF ASSESSMENT DESIGN	QUESTIONS		
ALIGNMENT	Is each assessment item aligned with the standard you intend to teach and measur		
RIGOR	Does the level of rigor of each assessment item match the level of rigor of the skill you intend to measure?		
	Does the assessment measure a range of student thinking and understanding so that it measures what all students know and can do?		
PRECISION	Are all items well formatted?		
	Are the instructions for the assessment and each assessment item precise so that students understand where and how to address the item?		
	Are all assessment items free of typos and factual errors?		
	Does the assessment and each assessment item have all of the information that students will need to demonstrate their knowledge and skills?		
	Does the assessment and each assessment item indicate how many points each assessment item is worth (if relevant) and how much time students have to complete their work?		
	For multiple-choice items, is the prompt framed in the positive? Are the choices consistent in form, content and length? Are they ordered in a logical sequence? Are they all plausible?		
	For performance tasks and portfolio assessments, have you considered the "what, who, how and when" factors (if applicable)?		
BIAS	Did you ensure that each assessment item does not provide an advantage or disadvantage to any group of students because of their personal characteristics, such as race, gender, socioeconomic status or religion?		
SCORING	Have you developed a well-designed answer key(s), scoring guide(s) and/or rubric(s), as appropriate?		
	Do your answer keys and scoring guides include rationales for why choices are correct or incorrect? Do they include exemplar answers (if applicable)?		
	Are the dimensions in your rubric aligned to the standard(s) you will assess? Are they distinct from one another?		
	Does each descriptor in your rubric include a precise description of student performance for a particular dimension and performance level? Is each descriptor discrete from the descriptor in the performance level before and after it?		
	Are all teachers who are scoring your assessment using the same criteria?		



Key Takeaways

Assessments should

- align to standards.
- match the level of rigor of the standard and include a range of rigor.
- be constructed with precision.
- be checked for bias.
- utilize an appropriate scoring method.



Monitoring and Adjusting in the Teaching and **Learning Cycle**

Fostering Intellectual Engagement Plan Implement Using Assessment Analyze **Effective** Collect **Assessments** 71



Data to Drive

Instruction

Tying it all Together

If you were riding in an elevator with your superintendent, a parent, a student and a colleague, and they asked you about the assessment cycle, what would you say? Write your one-minute explanation.



Closure

5 R's of Reflecting

- Restate: What did you learn?
- •React: What is your opinion?
- Relate: How does it relate to you?
- Respond: With a question.
- Realize: Why is it important?



Closure

Set a SMART Goal for your practice

Specific
Measurable
Action-Oriented
Realistic
Time-bound



Closure

Now that you've set a goal,

make it stick!

No goal: 0%

Set a goal: 20%

Write it down: 35%

Accountability partner: 51%

Specific action steps: 86%



