Shelley MOORE PH.D.





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How can we inclusively plan for, teach, and assess all students in a diverse classroom?

Session 1: Determining Learning Standards using Backwards Design

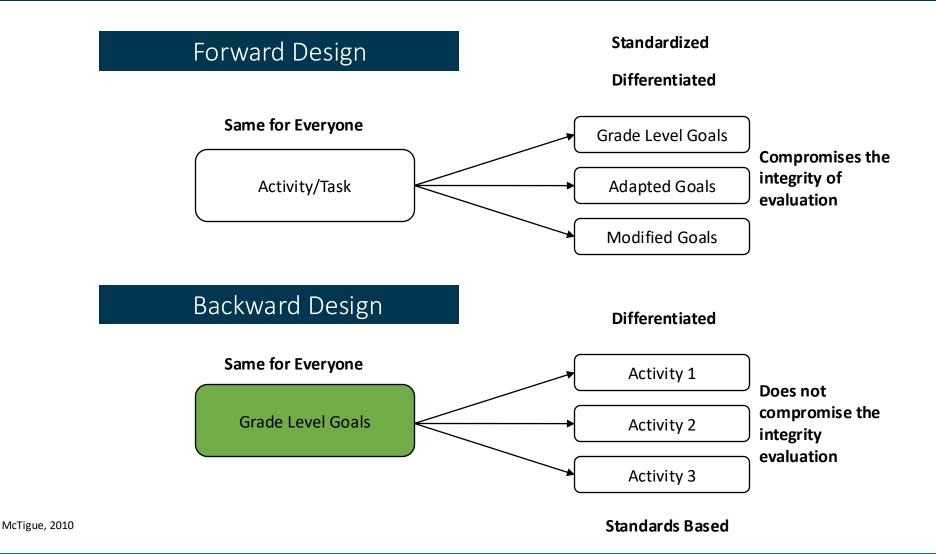
Session 2: Developing asset based learning continuums

Session 3: Inclusive lesson design reflecting UDL

Session 4: Inclusive and standards based assessment



UBD: Determining the Learning Standard



Backwards Design Using Arizona Math Curriculum

Grade:	Subject Area:		Strand/Topic:		
Learning Standard:			Teacher P	Teacher Provocation Questions: Student Generated Questions	
Key Vocabulary:	Key Vocabulary:				
	Possible Access			Student Friendly Language	
Learning Goals	Points (accessible version of grade level)	Curricular Language		What do students need to know? (I know)	What to students need to do? (I can)

Backwards Design Using Arizona Math Curriculum

Grade: 5	Subject Area: Math	Strand/Topic: Number and Operations - Fractions	
Learning Standard: fractions to add and	5.NF.A Use equivalent I subtract fraction	Unit Guiding Question(s): What is an equivalent fraction? How can we use equivalent fractions to add and subtract fractions?	Student Generated Questions:

Key Vocabulary: fraction, equivalent fraction, add, subtract, denominator, mixed number, strategies, understand, word problem, problem, solution, show my thinking, estimate, solve, pictorial, abstract, concrete

Loorning	Possible Access Points		Student Friendly Language	
Learning Goals	(accessible version of grade level)	Curricular Language	What do students need to know? (I know)	What to students need to do? (I can)
5.NF.A.1	 Adding Subtracting Sharing Fractions with like denominators Benchmark fractions ½, ¼ 	Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators	I know what a fraction is I know what a denominator is I know what an equivalent fraction is I know how to find an equivalent fraction I know why equivalent fractions can help me add and subtract fractions I know what a mixed number is I know how to turn a mixed number into a fraction	I can find an equivalent fraction I can use an equivalent fraction to add and subtract fractions when the denominators are not the same I can add and subtract fractions with there are mixed numbers
5.NF.A.2	 Visual problems (not word based) Word problem that use indicators above 	Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators by using a variety of representations, equations and visual models to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers	I know some strategies to help me understand word problems I know how to show my thinking in different ways I know what it means to estimate and how estimation help me understand and solve problems I know if a solution makes sense	I can solve word problems where I need to add and subtract fractions and the denominators are not the same I can show how I solve problems in different ways (pictorial, abstract, concrete) I can estimate to help me make sense of word problems I can think about the problem to see if a solution makes sense

Start

Here

Evidence of Learning: Choose your Challenge

Series Guiding Question: How can we inclusively plan for, teach and assess students in a diverse classroom?

- I understand that students are diverse and that planning for them requires anticipating variability rather than homogeneity
- I know that Backwards Design is an inclusive planning framework, connected to UDL that identifies learning standards and sub standards that allows for task differentiation which will increase opportunities for students to engage, understand, and show evidence of their learning
- I can identify the grade level learning standards and sub standards in a curricular unit
- I am inclusive and believe that ALL students, regardless of their ability, can access grade level curriculum

Task: Backwards Design Unit Planning		Time: Before the next session (Nov. 6, 2024)	Supports & Strategies	
I NEED to	 Find one person to collaborate w teaching/supporting this fall 	ith and choose a curricular unit that you will be	 Choice of collaborative partner/group 	
I MUST	looking at the curricular documeHighlight the important words th unit	tub standard in the unit you have chosen by ints at students will need to know and use in this be substituted for a more student friendly option	 Choice of curricular area to use Choice of task challenge On Series Dashboard Access to session handouts Access to examples 	
I CAN		standards/ sub standards into student friendly ems (I know, I can, I understand, or I am)	 Access to planning template 	
COULD	•	evelop some student friendly and provoking guiding questions that can ganize the learning standard/sub standards into an inquiry		
I can TRY to	 Identify corresponding literacy are into this unit 	nd/or numeracy standards that could be drawn		

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How can we inclusively plan for, teach, and assess all students in a diverse classroom?

Session 2 goals:

- I understand that students are diverse and that planning for them requires anticipating variability rather than homogeneity
- I know that Learning Continuums are an inclusive planning strategy, connected to UDL that provides a scaffold of
 a learning standard and/or a sub standard that allows for choice of complexity which will increase opportunities
 for students to engage, understand, and show evidence of their learning
- I can identify the concept of a grade level learning standard and/or sub standard in a curricular unit, and add on complexity
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How can we inclusively plan for, teach, and assess all students in a diverse classroom?

Nov. 6: Developing asset based learning continuums



Asset Based Rubric

- Learning maps/ learning continuum/ learner progressions
- Task neutral/ standards based
- Same entry point/ multiple exit points
- Start from access (what is essential/conceptual), add on challenge
- Students can have a role in choosing their challenge
- Different from a traditional rubric

Rubrics vs. Learning Continuum

	deficit	deficit	Most complex description
Grade Level Learning Standard			



THE SCRUMPTIOUS RUBRIC REFERENCE

BARELY HANGING ON



The customer wants a refund. Bread alone is not a sandwich. It's like you gave the bread and pop out just to show you were listening.

Translation: You only did the small stuff to suffice turning it in. The artwork is missing all important details and signs of understanding or perseverance.

NEEDS SOME UMPH



Your sandwich disappoints the customer. There's no flavor and not enough meat, if any at all. About the only thing great is the Citrus Drop.

Translation: You are missing important details within your artwork. Expectations are not met. Improvement is needed and lack of understanding is present.

GETS THE POINT



Your sandwich met expectations. It has flavor but nothing too exciting. You included the meat but gee, a side of chips would be nice.

Translation: Your artwork meets expectations, you went as far as the requirements expected and you used what knowledge you had to do so.

RIGHT ON!



Your sandwich went beyond expectations. You threw in some extra flavor and tomatoes and surprised the customer with a side of chips.

Translation: Your artwork exceeds all expectations; you used creativity, went beyond the basic requirements and showed obvious understanding.

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Inclusive Education: It's not more work, it's different work!

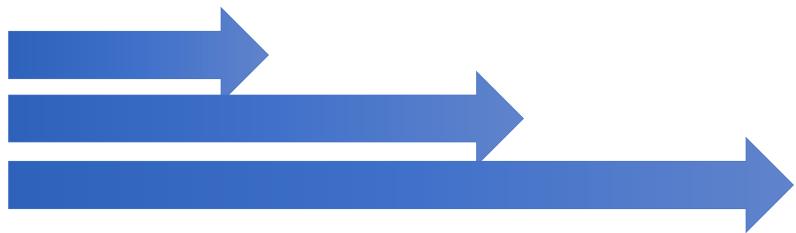
Rubrics vs. Learning Continuum

	deficit	deficit	Most complex description
Grade Level Learning Standard			

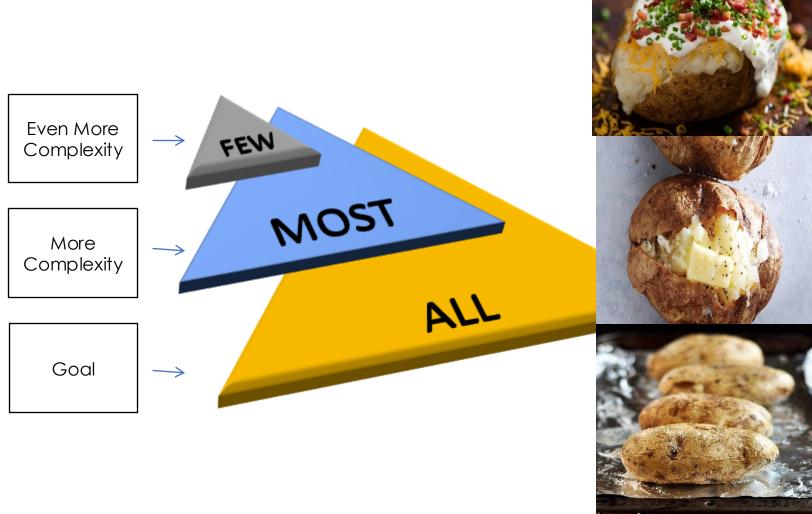


Rubrics vs. Learning Continuum

	Essential	More complex	More complex
Grade Level Learning Standard			

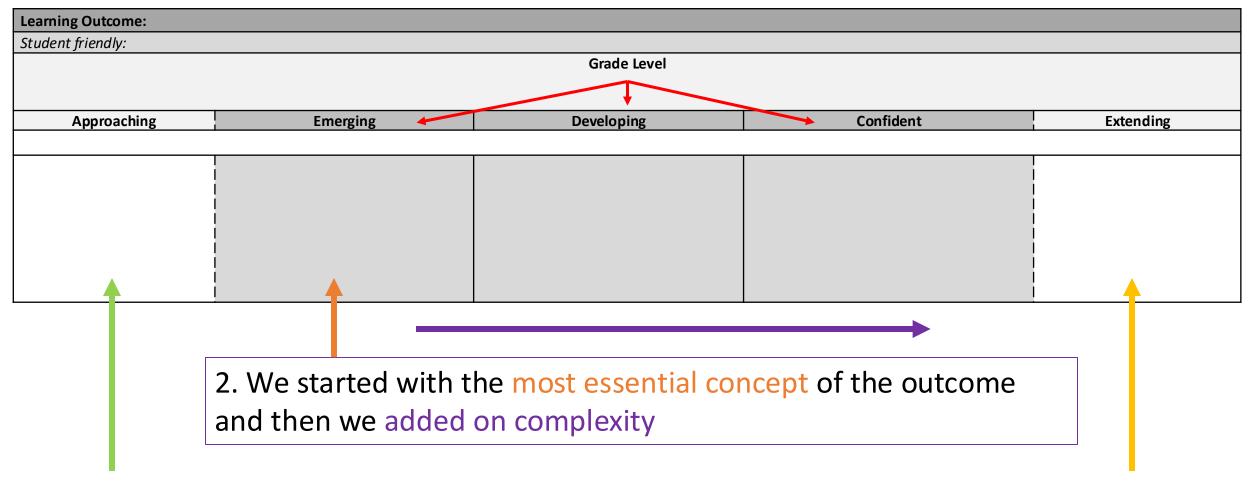


Planning Pyramid



Our Co-Planning Journey: Learning Continuums

1. Using the elaborations for each learning outcome, we constructed a grade-level scaffold in student friendly language

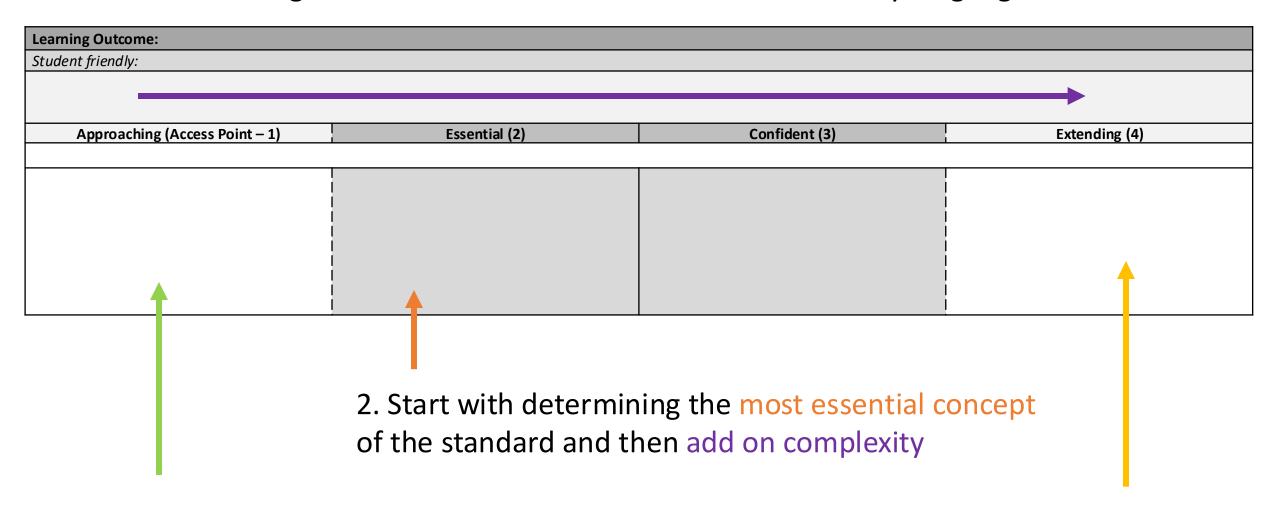


3. We extended the grade level scaffold to include an access point and challenge point

Cours	Course/Subject/Grade(s): Math 8			Planning Team:			
Unit 0	Unit Guiding Question: What are statistics? How do I understand statistics? How can I use statistics to understand and respond to a local issue?						
Learnir	ng Standards	Approaching – IE/ IEP	Emerging - 2	Developing – 3	Confident – 3.5	Extending - 4	
	v statistics vocabulary hat these terms mean	I know where there are statistics in my life or statistics that describe my life/ community I know mean, median, mode & range and how they are connected	I know what statistics are and why they are useful I know that statistics tell a story	I know what these terms represent and communicate Measures of central tendency Standard deviation	I know I know what these terms represent and communicate Confidence interval Z-scores distributions	I know how the terms in statistics are connected and influence each other	
	I can estimate reasonably	I can estimate I can estimate rational numbers I can use a variety of operations	I can defend an estimation I can determine a reasonable estimate I can use a strategy to help me estimate reasonably (benchmark)	I can be aware of and use multiple strategies to help me estimate reasonably I can choose a strategy that works for me	I can choose a strategy that is most strategic and efficient	I can mentally use a variety of strategies and operations to create a reasonable estimate	
v	I can identify the problem I can come up with possible solutions to a problem	I can use a math tool following a model	I can identify the problem I can use a strategy to solve a problem I can use math tools I can find a possible solution and describe my process	I can use a variety of strategies to solve a problem I know which math tools to use I can adjust my strategies and math tools if my solution doesn't make sense	I can choose the most efficient strategy and math tools to solve a problem I can justify my solution	I can integrate solutions and adjust depending on the task	
Curricular Competencies	I can identify and solve a problem connected to my local community	I can find/identifying statistics in my life	I can notice and understand what statistics are telling me in my daily life I can describe how perspectives (diverse /indigenous) can change how statistics are presented	I can wonder about statistics I can describe what is the story (perspective) that specific statistics are presenting	I can pose inquiry questions into statistics I can consider and describe other perspectives (diverse /indigenous) and possible stories are presenting	I can use statistics to inform and shape mine/others' opinions	
Curricula	I can identify the math concept we are working with	I can show my learning in one way I can follow a model	I can explain my mathematical argument I can explain my thinking in many ways (oral, written, visually) I can integrate technology I can identify that data can be interpreted to form different opinion/ stories	I can explain my mathematical argument by integrating oral, visual and written ways I can recognize bias/others I can question data by understanding the intent/perspectives behind why statistics are presented	I can consider an audience when explaining my mathematical argument	I can anticipate consequences and responses in my explanation	
	I can connect math concepts to each other, myself and the world	I can find ways that I use math in my life	I can connect mathematical concepts to help us better understand ourselves and our daily life	I can connect mathematical concepts to the world around us (news, traditional practices, media) I can connect mathematical concepts to other curricular areas/concepts	Using mathematical concepts to form an argument in support of an issue or an opinion	I can connect mathematical concepts to concepts in social justice	

Learning Continuums

1. Choose a Learning Standard and translate it into student friendly language



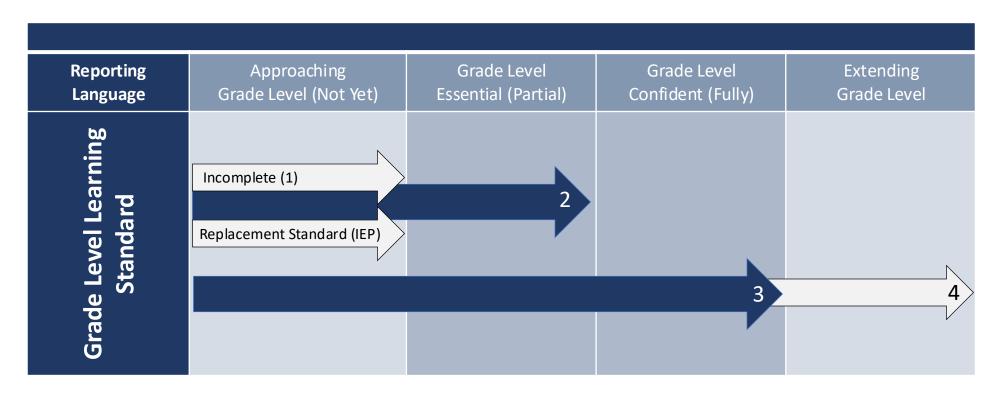
3. Extend the grade level standard to include an access point and challenge point

Next Generation Science Standards (NGSS)					
Subject Area: Science	Subject Area: Science Strand: Matter and Its Interactions		Grade: 5		
Performance Expectation: 5-PS1-1 Students can develop a model to describe that matter is made of particles too small to be seen		Guiding Unit Question: How do we know that something exists if we cannot see it?			
Unit Vocabulary (Content): properties, structures, scale, proportion, quantity, models, particles, bulk matter,		Unit Vocabulary (Skills): make, observe			

Foundations	Student Friendly Language	Access Point	Essential	Confident	Extend
Science & Engineering Practices	I can make a model to help me understand an idea by:	following/ participating in creating a model	planning and creating a model	creating a model to solve a problem	Adjusting or revising a model I have created
Disciplinary Core Ideas	I know that matter is made up of particles that are too small to see by: I know that models can help us see particles that are too small to see by:	describing what matter is describing that there are different states of matter	describing what bulk matter is describing that matter (that I can see) is made up of tiny particles (that are too small to see)	describing how collecting many tiny particles can help us observe how matter takes up space describing which part	describing the relationship between matter and particles using the model to describe the relationship between
		describing examples of different kinds of matter in the world	describing examples of models that help to observe particles that are too small to see	of the model is bulk matter, and which part of the model is particles	matter and how particles move when they are collected
Crosscutting Concepts	I know that objects in the world can be very large and very small by:	describing objects in the world that are very small and very large	describing what microscopic and macroscopic is and examples of each in the world	describing what is similar and what is different between microscopic and macroscopic objects in the world	describing what scale is and how it helps us understand microscopic and macroscopic objects

^{*}Description: can include but are not limited to written, oral, pictorial, and kinesthetic

An Additive Continuum of Proficiency



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5.NF.A.2	 Visual problems (not word based) Word problem that use indicators above 	Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators by using a variety of representations, equations and visual models to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers	I know some strategies to help me understand word problems I know how to show my thinking in different ways I know what it means to estimate and how estimation help me understand and solve problems I know if a solution makes sense	I can solve word problems where I need to add and subtract fractions, and the denominators are not the same I can show how I solve problems in different ways (pictorial, abstract, concrete) I can estimate to help me make sense of word problems I can explain why a solution makes sense

Additive Learning Continuum: Arizona Math 5

Learning Standard: : 5.NF.A Use equivalent fractions to add and subtract fraction

GUIDING QUESTIONS: What is an equivalent fraction? How can we use equivalent fractions to add and subtract fractions?

Approaching	Essential	Confident	Extending
I know what a fraction is I know what a denominator is I know what an equivalent fraction is I can add and subtract fractions with like denominators I can follow a model strategy to solve a math problem using fractions	 I know how to find an equivalent fraction I can find an equivalent fraction using benchmark fractions I know why equivalent fractions can help me add and subtract fractions I can use an equivalent fraction to add and subtract fractions when the denominators are not the same (benchmarks) I know what a mixed number is I know how to turn a mixed number into a fraction I can solve word problems where I need to add and subtract fractions, and the denominators are not the same (using benchmarks) I can show how I solve problems in one 	 I can find an equivalent fraction I can use an equivalent fraction to add and subtract fractions when the denominators are not the same I can add and subtract fractions with there are mixed numbers I can solve word problems where I need to add and subtract fractions, and the denominators are not the same I can show how I solve problems in another ways (pictorial, abstract, 	I can add or subtract fractions with unlike denominators using the strategy of the least common denominator (LCD) I can add or subtract fractions by converting fractions into an improper fraction and then converting back into mixed numbers I can show how I solve problems in any way (pictorial, abstract, concrete)
	 ways (pictorial, abstract, concrete) I know some strategies to help me understand word problems I know what it means to estimate and how estimation help me understand and solve problems I know if a solution makes sense 	 concrete) I can estimate to help me make sense of word problems I can explain why a solution makes sense 	

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- I am inclusive and believe that ALL students, regardless of their ability, can access grade level curriculum

Task: Backwa	ards Design Unit Planning	Time: Before the next session (Jan 22, 2024)	Supports & Strategies		
I NEED to	 Identify the learning standards/ sub standard in the unit you have chosen by looking at the curricular documents 		 Choice of collaborative partner/group 		
I MUST	Determine the most importanAdd on another level of comp	t and essential concept or ides in each standard lexity	Choice of curricular area to useChoice of task challenge		
I CAN	 Extend for access Extend for challenge On Series Dashboard Access to session hand 		On Series Dashboard • Access to session handouts		
I COULD	_	ng standards/ sub standards into student friendly stems (I know, I can, I understand, or I	Access to examplesAccess to planning template		
I can TRY to	Try to create another learning	standard			



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