

# SHELLEY MOORE



@tweetsomemoore



@fivemooreminutes



@fivemooreminutes



[www.fivemooreminutes.com](http://www.fivemooreminutes.com)

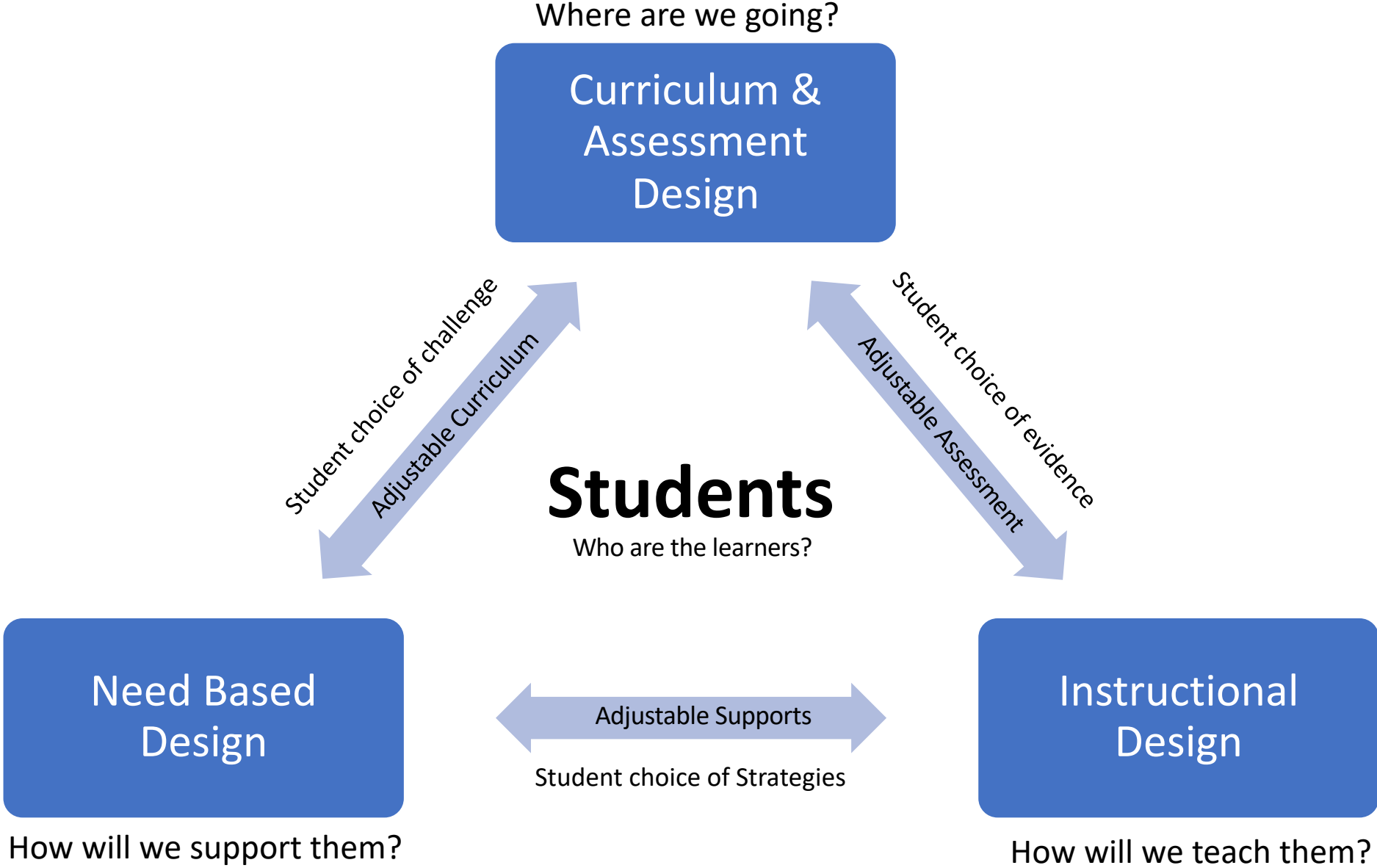
[www.blogsomemoore.com](http://www.blogsomemoore.com)



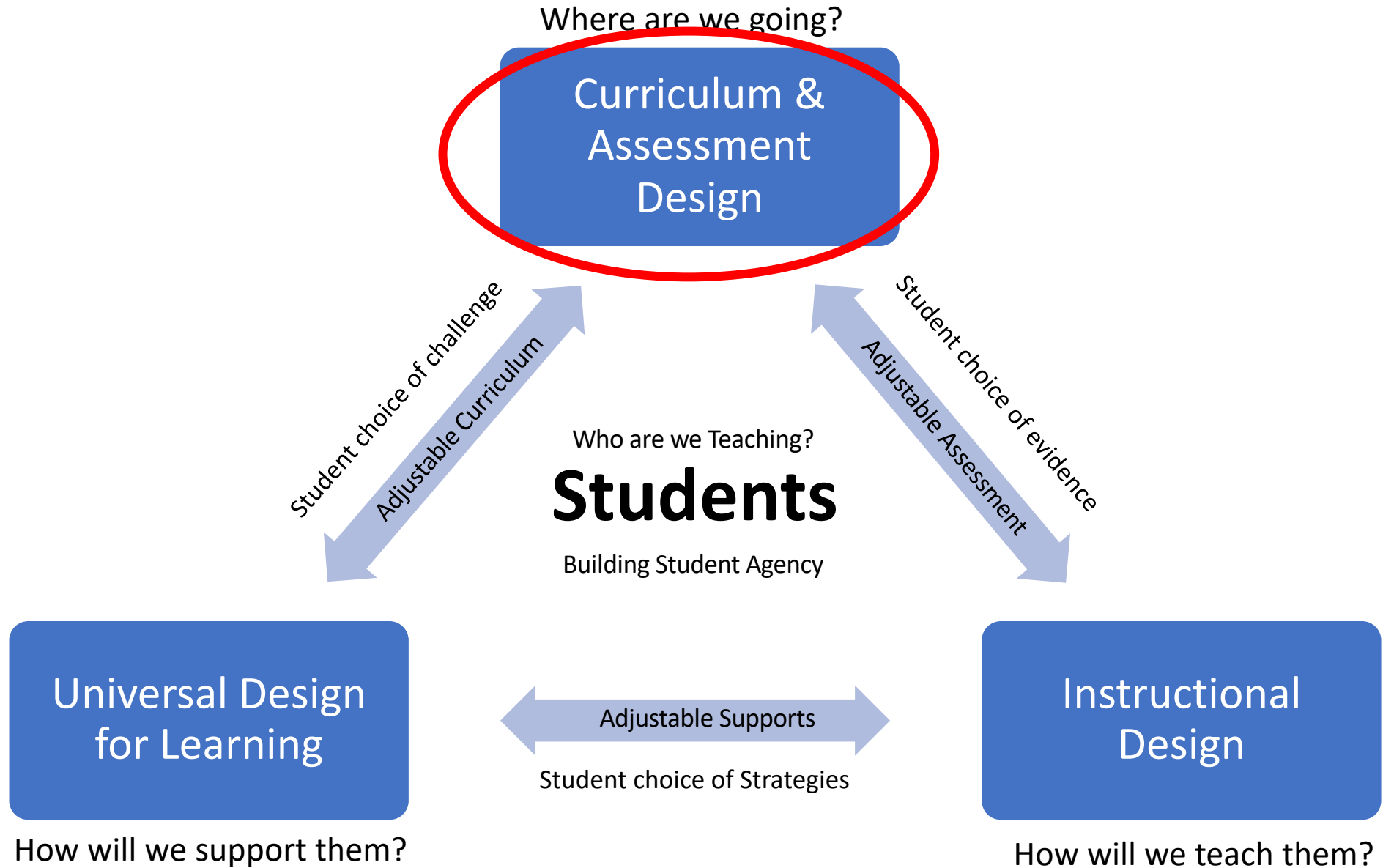
# HOW DO WE DESIGN AN ADJUSTABLE CURRICULUM?

- who are the *students*? what is the range of *diversity*?
- what kind of *curricula* are the students learning?
- How is the curriculum *responsive* to the students dimensions?
- How do the students make the *adjustments* they need to use the curriculum?

# How do we change the system? Design with Equity in Mind



# How can we change the system? Designing with Equity in Mind



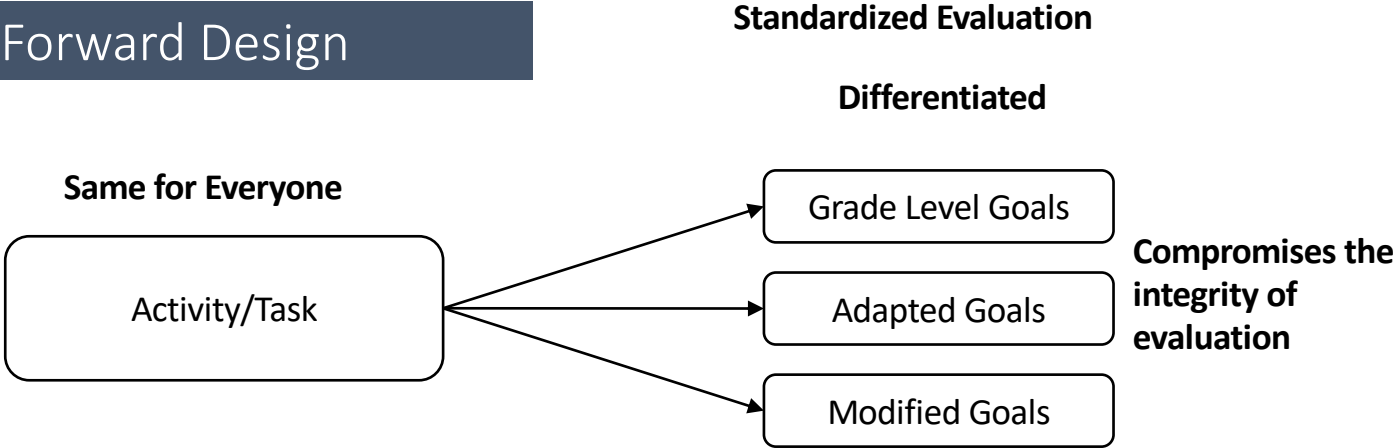
# BACKWARDS DESIGN



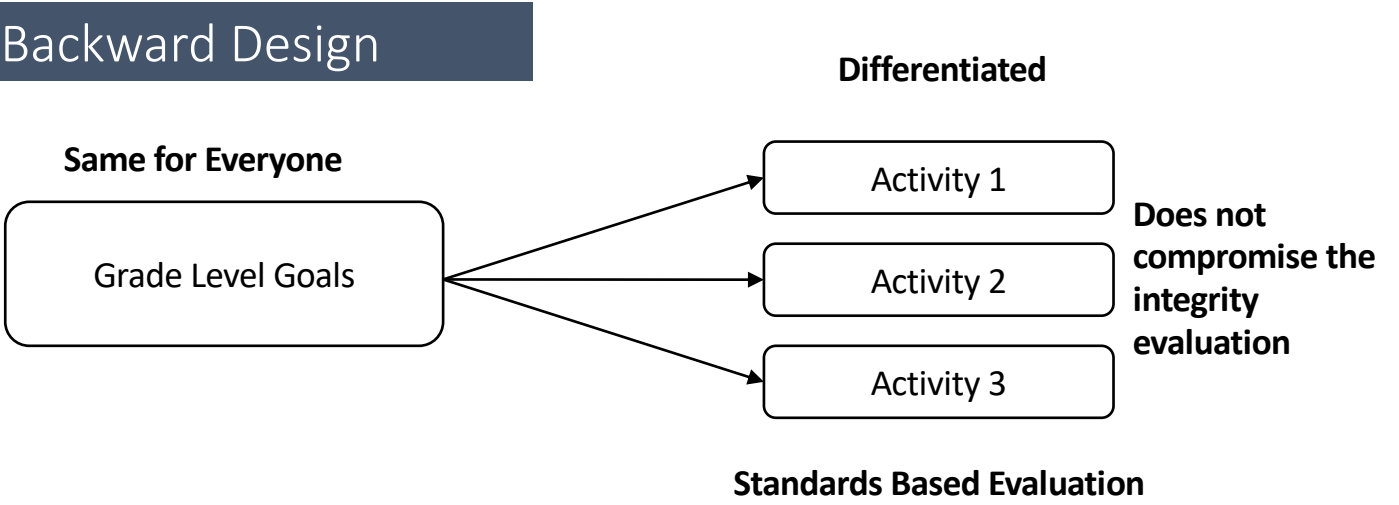
# Backwards Design Big Ideas:

- Every curriculum has **curricular goals**
- We need to **choose goals** to teach for every **unit**
- We organize goals around a **big idea/question**
- We need to **translate** those goals into **student friendly language**
- **Students** need to **know the goals**
- Learning activities are **EVIDENCE of learning**
- We **evaluate goals** NOT activities
- Student choose their **best examples** of evidence (triangulation)

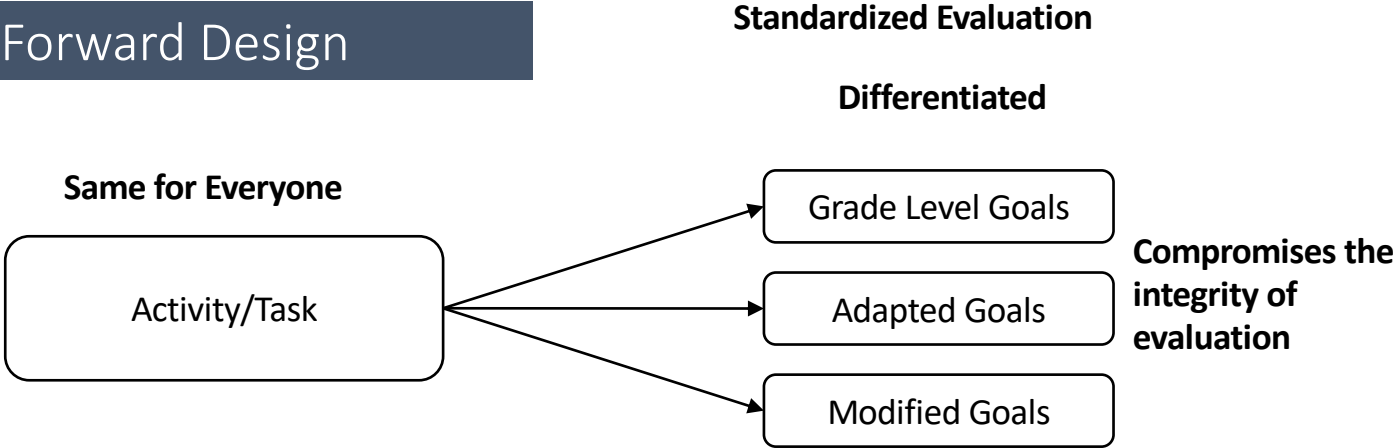
# Forward Design



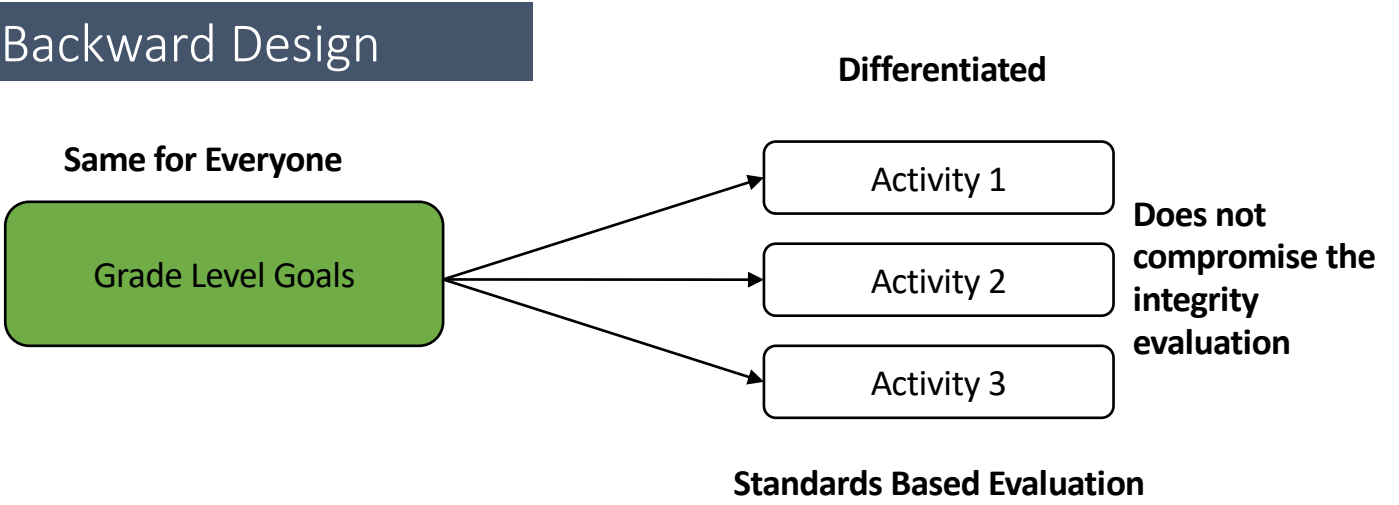
# Backward Design



# Forward Design



# Backward Design





# Goals Come From The Curriculum!



# Backwards Design: Previous Curriculum

What types of goal are in the curriculum?

- **Content**

- What do we need to know?

- **Process**

- What do we need to do?

PREScribed LEARNING OUTCOMES BY GRADE
<b>GRADE 4</b>
<b>Processes and Skills of Science</b> <i>It is expected that students will:</i> <ul style="list-style-type: none"><li>• make predictions, supported by reasons and relevant to the content</li><li>• use data from investigations to recognize patterns and relationships and reach conclusions</li></ul>
<b>Life Science: Habitats and Communities</b> <i>It is expected that students will:</i> <ul style="list-style-type: none"><li>• compare the structures and behaviours of local animals and plants in different habitats and communities</li><li>• analyse simple food chains</li><li>• demonstrate awareness of the Aboriginal concept of respect for the environment</li><li>• determine how personal choices and actions have environmental consequences</li></ul>
<b>Physical Science: Sound and Light</b> <i>It is expected that students will:</i> <ul style="list-style-type: none"><li>• identify sources of light and sound</li><li>• explain properties of light (e.g., travels in a straight path, can be reflected)</li><li>• explain properties of sound (e.g., travels in waves, travels in all directions)</li></ul>
<b>Earth and Space Science: Weather</b> <i>It is expected that students will:</i> <ul style="list-style-type: none"><li>• measure weather in terms of temperature, precipitation, cloud cover, wind speed and direction</li><li>• analyse impacts of weather on living and non-living things</li></ul>

What do you notice?

# Backwards Design: What are the GOALS?

- **Backwards Design**
  - **Big Idea**
    - What do we need to understand?
  - **Content**
    - What do we need to know?
  - **Curricular Competencies**
    - What do we need to do?
  - **Core Competencies**
    - Who do we need to become?

<b>Grade:</b>	<b>Subject Area:</b>	<b>Planning Team:</b>
<b>Big Idea(s): What do I need to Understand?</b>		<b>Unit Guiding Question(s):</b>
<b>Key Vocabulary:</b>		
	<b>Curricular Language</b>	<b>Student Friendly Language</b>
<b>What do students need to know? Knowledge Goals</b>		<b>I know</b>
<b>What do students need to do? Skills/Process Goals</b>		<b>I can</b>
<b>What do students need to do? Skills/Process Goals</b>		<b>I can</b>
<b>What do students need to do? Skills/Process Goals</b>		<b>I can</b>
<b>Who do student need to be? Competency Goals</b>	<b>I can become/ I am...</b>	

## Backward Design Unit Planning Template: Building the Curricular Air Plane

Class: Ms. P Gr. 2/3	Subject Area(s): Cross Curricular	Planning Team: Ms. P & Shelley
<b>Big Idea(s):</b> <ul style="list-style-type: none"> <li>• <b>Forces</b> influence the motion of an object. (Science)</li> <li>• Everyone has a unique <b>story</b> to share. (Language Arts)</li> </ul>		<b>Unit Guiding Question(s):</b>  Who are our monsters? What are their <b>stories</b> ? How can we use <b>forces</b> to help us catch them?
Unit Goals	Curricular Language	Student friendly language
Content Goal: Science (2)	types of forces	I know different types of <b>forces</b>
Content goal: Language Arts (2/3)	Story/text: elements of a story	I know what makes a <b>story</b>
Curricular Competency Goal: ADST (2/3)	Making: Make a product using known procedures or through modelling of others	I can <b>make</b> something for a <b>purpose</b>
Curricular Competency Goal: Science (2/3)	Safely manipulate materials to test ideas and predictions	I can <b>make a plan</b> and <b>try out my ideas</b>
Curricular Competency Goal: Language Arts (2/3)	Plan and create a variety of communication forms for different purposes and audiences	I can <b>create a story</b> for an <b>audience</b>
Curricular Competency Goal: Art (2/3)	Exploring and creating: Explore elements, processes, materials, movements, technologies, tools, and techniques of the arts	I can <b>create</b> many things using different art <b>tools</b> and <b>materials</b>
Core Competency Goal: (Profile 1/2)	<b>Creative Thinking:</b> I get ideas when I play (1) I can get new idea or build on or combine other people's ideas to create new things within the constraint of a form, a problem or materials (2)	<b>We are creative thinkers because we get new ideas!</b> I get new ideas by: <b>(Students choose):</b> <ul style="list-style-type: none"> <li>• using my <b>senses</b> to <b>explore</b></li> <li>• <b>changing</b> what I am doing</li> <li>• <b>trying something new</b></li> <li>• <b>solving a problem</b> in a <b>new way</b></li> </ul>

**Who are our monsters? What are their stories?  
How can we use forces to help us catch them?**

Name:		Date:	
<b>I'm still working on it...</b>	<b>My goals</b>	<b>I got it!</b>	<b>How do I know? What is my evidence?</b>
	<ul style="list-style-type: none"> <li>I know different types of <b>forces</b></li> </ul>		
	<ul style="list-style-type: none"> <li>I know what makes a <b>story</b></li> </ul>		
	<ul style="list-style-type: none"> <li>I can <b>make</b> something for a <b>purpose</b></li> </ul>		
	<ul style="list-style-type: none"> <li>I can <b>make</b> a <b>plan</b> and <b>try</b> out my <b>ideas</b></li> </ul>		
	<ul style="list-style-type: none"> <li>I can <b>create</b> a <b>story</b> for an <b>audience</b></li> </ul>		
	<ul style="list-style-type: none"> <li>I can <b>create</b> many things using different art <b>tools</b> and <b>materials</b></li> </ul>		

Grade: 4/5	Subject Area: Math	Planning Team: Kelset Team
<b>Big Ideas:</b>	<b>Unit Guiding questions:</b> Why do we need to learn how to add and subtract? Where in our lives do we use addition and subtraction?	
<b>Content Goal:</b>	<a href="#">addition and subtraction</a> to 10 000	I know how to <b>add</b> and <b>subtract</b> numbers up to 10 000
<b>Content Goal:</b>	addition and subtraction facts to 20 (developing <a href="#">computational fluency</a> )	I know how to add and subtract up to 20 in my head
<b>Curricular Competency Goal:</b>	Develop <a href="#">mental math strategies</a> and abilities to make sense of quantities	I can use <b>mental math</b> to understand <b>“how much/how many?”</b>
<b>Curricular Competency Goal:</b>	Develop and use <a href="#">multiple strategies</a> to engage in problem solving	I can solve problems using different <b>strategies</b>
<b>Curricular Competency Goal:</b>	<a href="#">Communicate</a> mathematical thinking in many ways	I can share my thinking in many ways
<b>Curricular Competency Goal:</b>	Connect mathematical concepts to each other and to <a href="#">other areas and personal interests</a>	I can <b>connect</b> what I am learning in math to me and my life

Grade: 6		Subject Area: Science	Planning Team: Alicia & Shelley
Big Ideas: The <b>solar system</b> is part of <b>the Milky Way</b> , which is one of billions of <b>galaxies</b> .		<b>Unit Guiding questions:</b> <ul style="list-style-type: none"> <li>- How are the solar system and the milky way connected? How are they similar, How are they different?</li> <li>- What are galaxies? How do we know how many galaxies there are? How do we know?</li> </ul>	
Content Goal:	<b>the position, motion, and components(parts) of our solar system in our galaxy</b>	<i>I know the position, motion and parts of our solar system in our galaxy</i>	
Content Goal:	<b>the overall scale, structure, and age of the universe</b>	I know the scale, structure and age of the universe	
Curricular Competency Goal: Questioning and predicting	<b>Demonstrate a sustained (over time) curiosity about a scientific topic or problem of personal interest</b>	I can show curiosity over time about a scientific topic I can show curiosity about a topic that is interesting to me	
Curricular Competency Goal: Processing and analyzing data and information	<b>Identify First Peoples perspectives and knowledge as sources of information</b>	I can find out about First Peoples perspectives (view) and how they understand I can find out how First Peoples get their knowledge	
Curricular Competency Goal: Evaluating	<b>Identify some of the assumptions in secondary sources</b>	I can find assumptions (hidden beliefs) in secondary sources	
Curricular Competency Goal: Evaluating	<b>Demonstrate an understanding and appreciation of evidence</b>	I can use evidence to support my understanding	
Curricular Competency Goal: Applying and innovating	<b>Co-operatively design projects</b>	I can work together with my peers on a project	
Core Competency Goal:	<b>We can be collaborators</b>		



## Backward Design Unit Planning Template: Building the Curricular Air Plane

Grade: 6/7	Subject Area(s): English	Planning Team: Grand Forks
Big Idea: Developing our understanding of how <b>language</b> works allows us to <u>use it purposefully</u>		Unit Guiding Question(s): What is language? How do we use language purposefully to communicate information about flooding in the Grand Forks and surrounding areas?
Content Goal	I know techniques of persuasion I know presentation techniques	
Curricular Competency Goal	I can access information and ideas for <u>diverse purposes</u> and from a <u>variety of sources</u> and evaluate their <u>relevance</u> , <u>accuracy</u> , and <u>reliability</u>	
Curricular Competency Goal	I can respond to <u>text</u> in <u>personal, creative, and critical ways</u>	
Curricular Competency Goal	I can use writing and design processes to plan, develop, and create engaging and meaningful <u>literary and informational texts</u> for a variety of purposes and <u>audiences</u>	
Curricular Competency Goal	I can assess and <u>refine texts</u> to improve their clarity, effectiveness, and impact according to purpose, <u>audience</u> , and message	
Core Competency Goal	I can be socially responsible by contributing to community and caring for the environment	

# Rubrics vs. Learning Maps

	deficit	deficit	Standard
goal			



# 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.

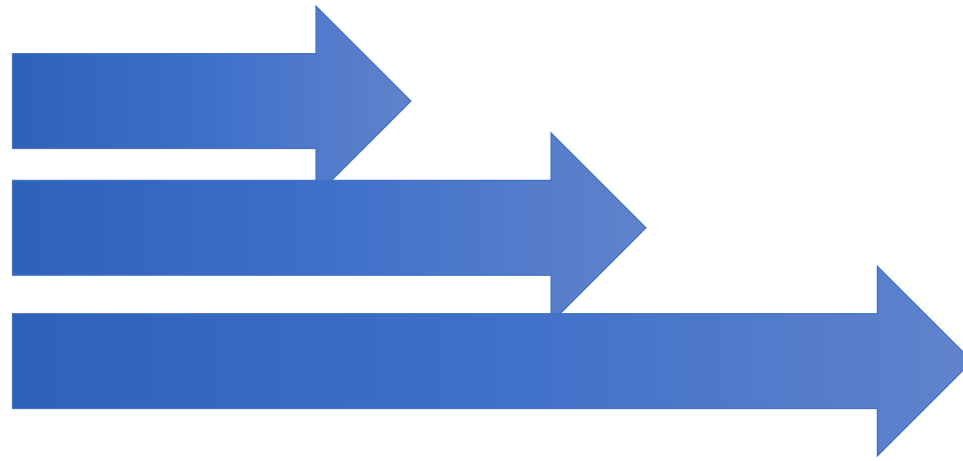
**Translation:** Your artwork exceeds all expectations; you used creativity, went beyond the basic requirements and showed obvious understanding.

[www.FIVEMOOREMINUTES.COM](http://www.fivemooreminutes.com)

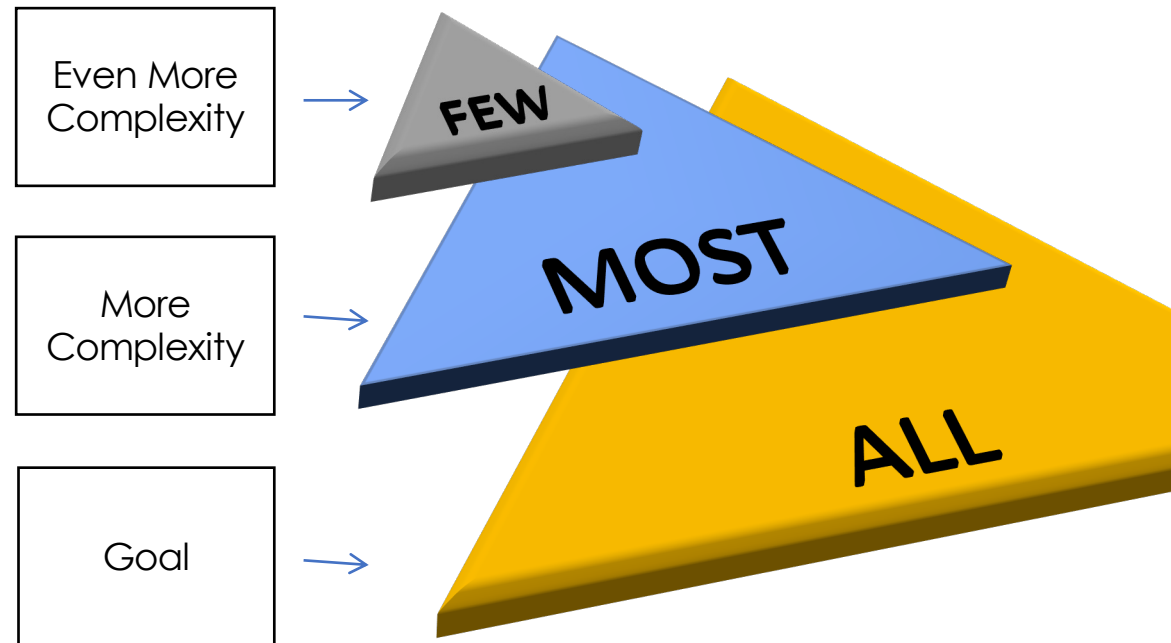
Inclusive Education: It's not more work, it's different work!

# Rubrics vs. Learning Maps

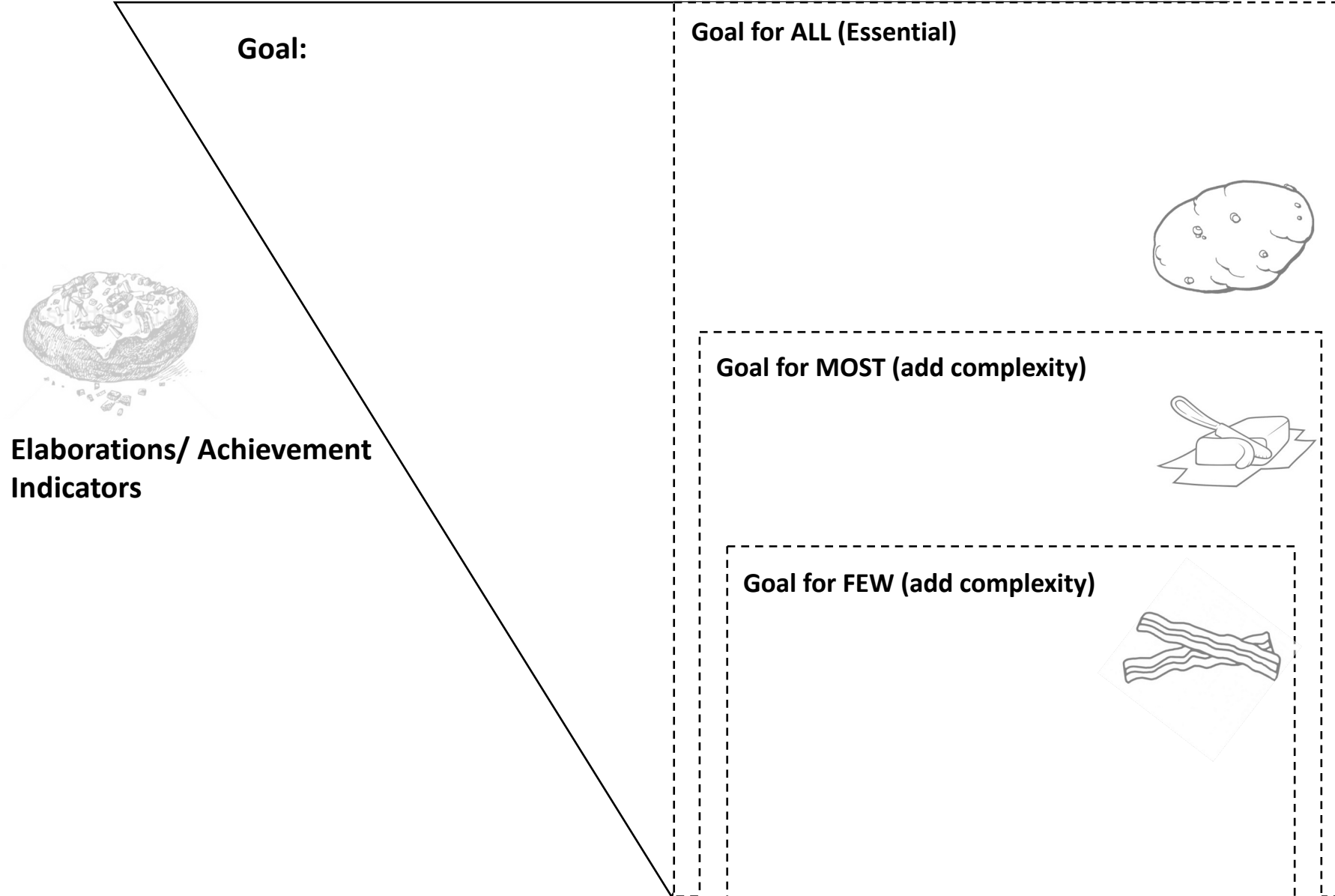
	Essential	More complex	More complex
Learning Outcome			



# Planning Pyramid



# The Baked Potato Planning Strategy:



# Our Co-Planning Journey: Learning Continuums

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

Learning Outcome:				
<i>Student friendly:</i>				
Grade Level				
Approaching	Emerging	Developing	Confident	Extending

2. We started with the **most essential concept** of the outcome and then we **added on complexity**

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

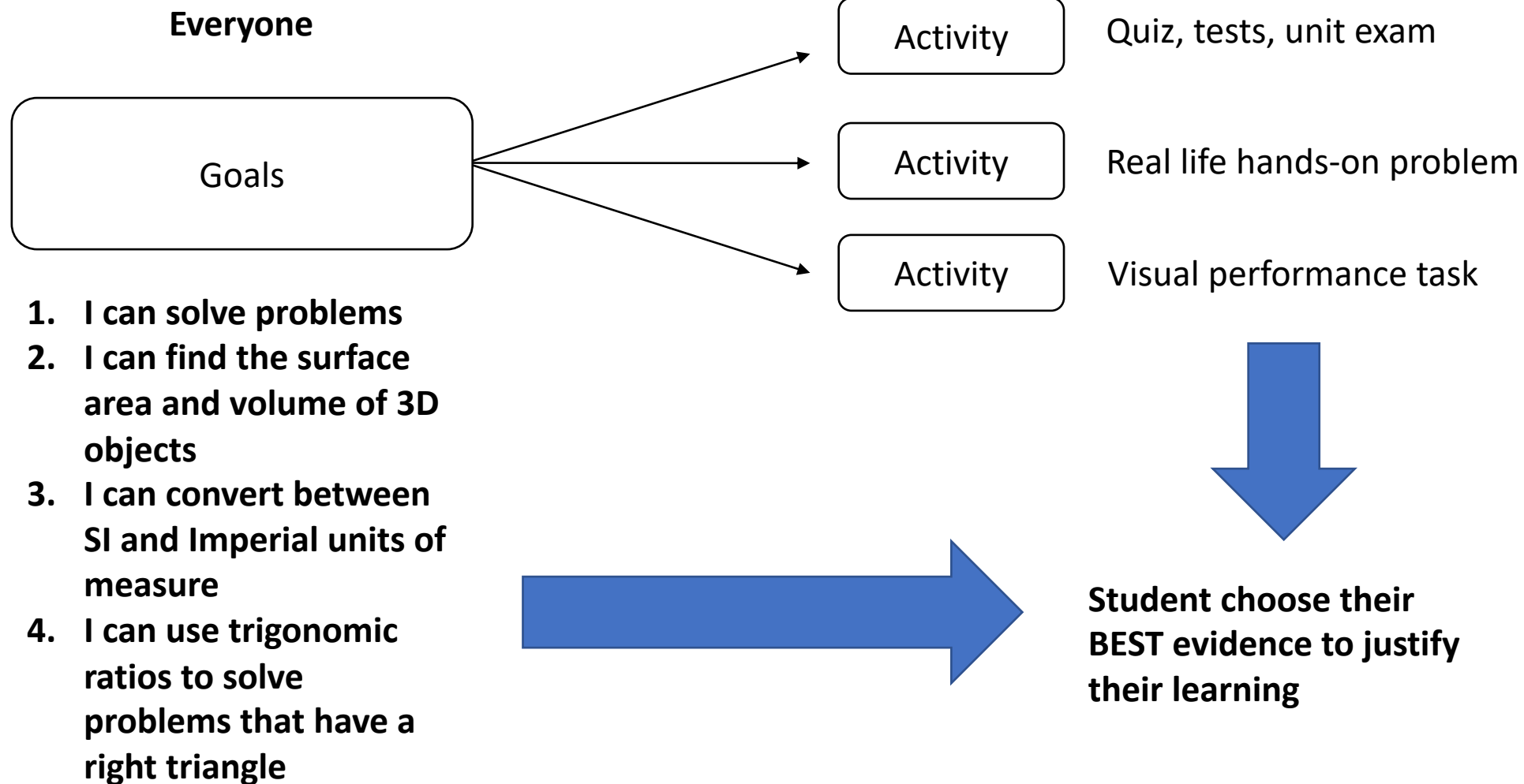
# An Additive Continuum of Proficiency

Assessment Language	Grade Level Emerging	Grade Level Developing	Grade Level Confident
Grade Level Learning Standard	Essential Concept	More complexity	More complexity

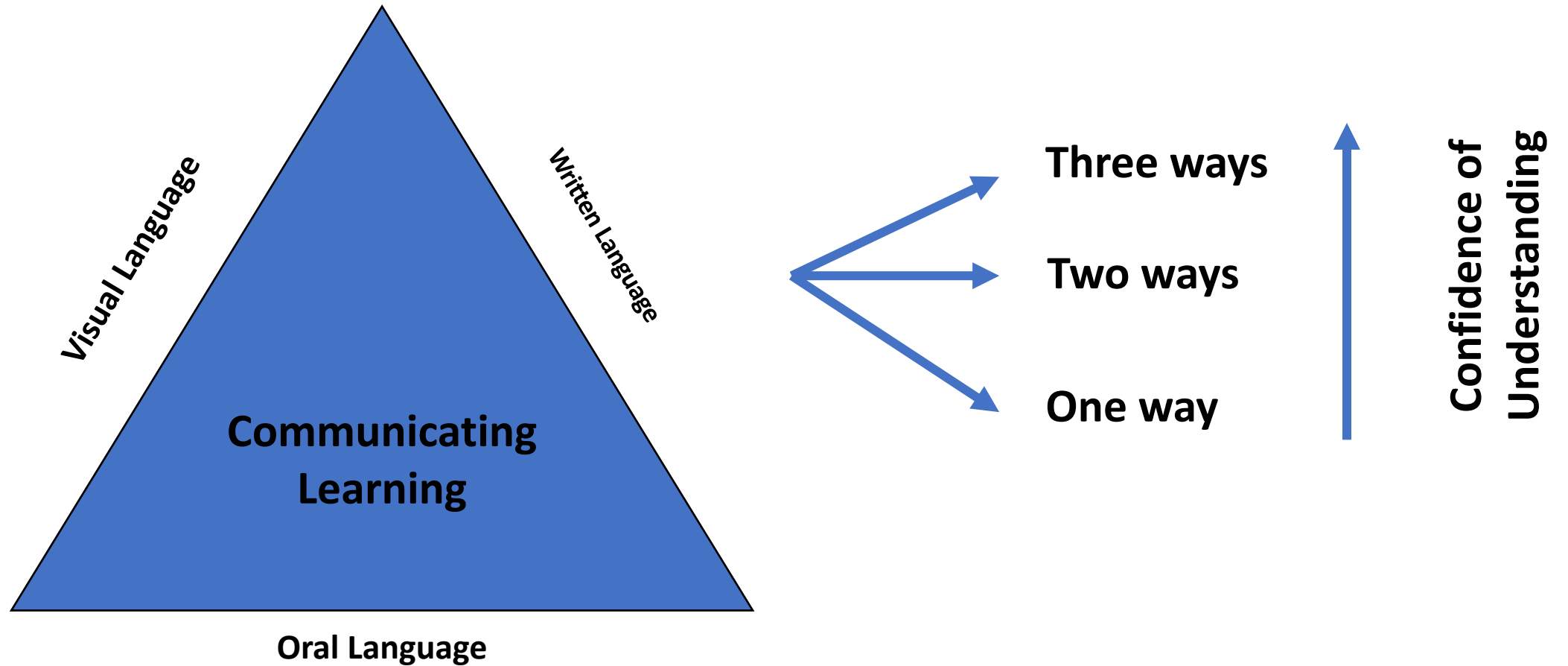


# Backward Design

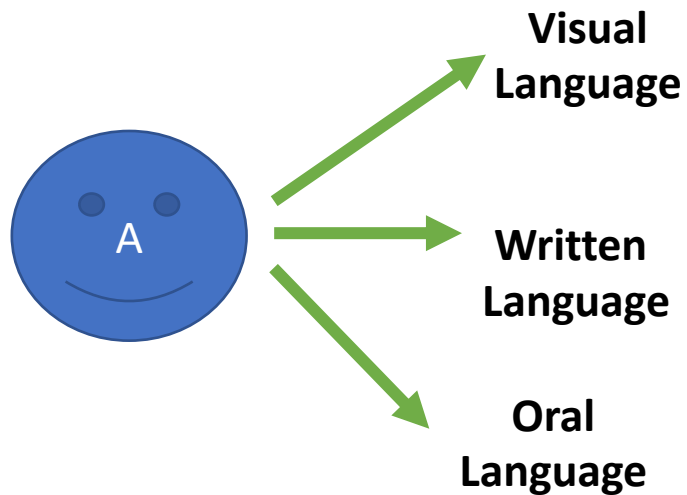
## Differentiated Activities: Opportunities to create evidence (Formative & Summative)



# How do students show what they know?



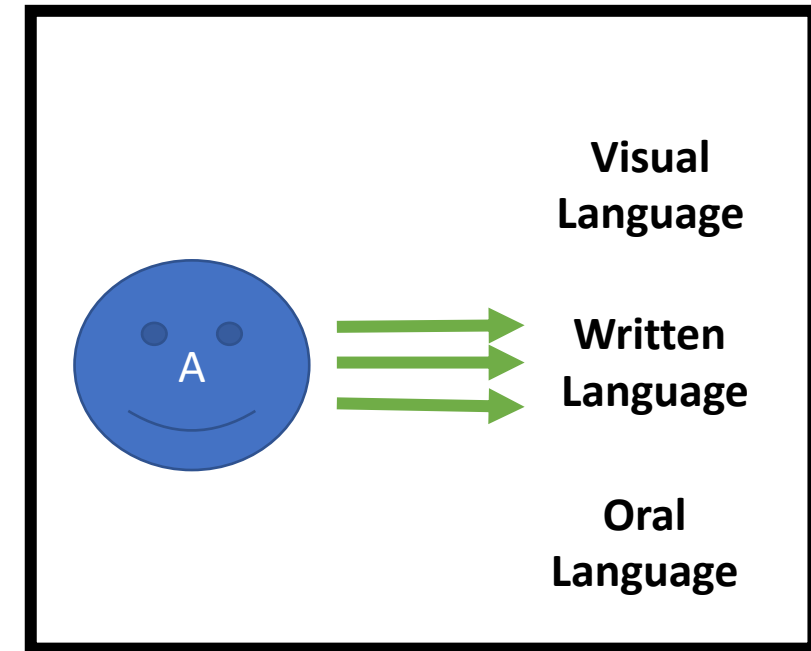
# All Languages (in literacy) are Treated Equal!



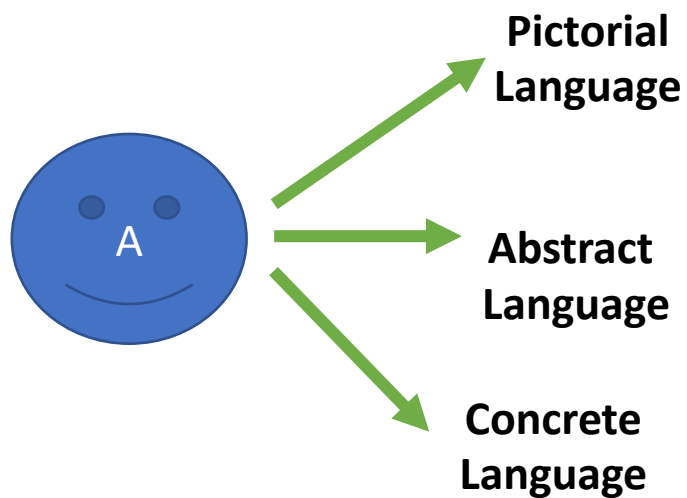
The **MORE WAYS** students can demonstrate learning, the more confident we are of meeting a goal

**Instead of**

The **NUMBER OF TIMES**, a student can show their learning in one way, the more confident we are of meeting a goal



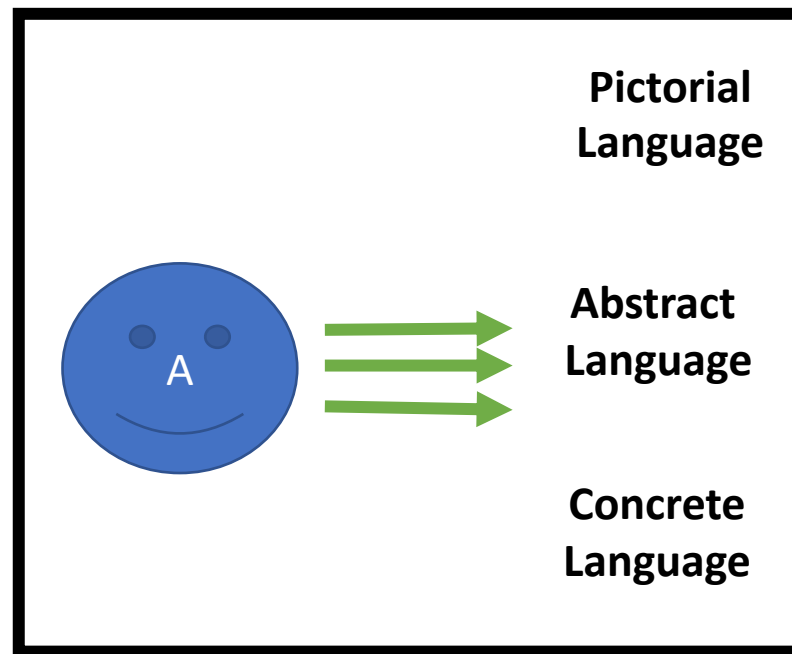
# All Languages (in numeracy) are Treated Equal!



The **MORE WAYS** students can demonstrate learning, the more confident we are of meeting a goal

**Instead of**

The **NUMBER OF TIMES**, a student can show their learning in one way, the more confident we are of meeting a goal

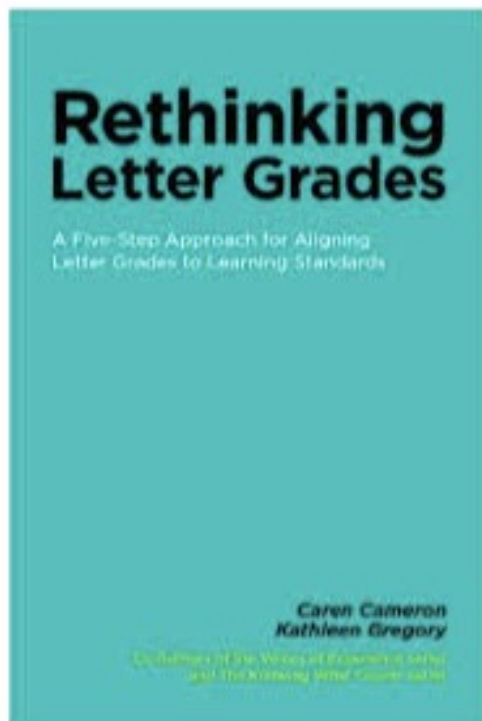


Name:	Math 10 C	Date:	Topic: Measurement		
-------	-----------	-------	--------------------	--	--

**Unit Guiding Question: What is spatial sense? What is proportional reasoning? How are they connected?**

Goals	My evidence of learning	Showing my Learning			I Need Support	I Need Challenge
	Actvtivities/ tasks	concrete	pictorial	abstract		
<b>1. I can solve problems by:</b> <ul style="list-style-type: none"> <li>• Using different units of measure</li> <li>• Estimating</li> <li>• Using measurement strategies</li> </ul>						
<b>2. I can find the surface area and volume of 3D objects including:</b> <ul style="list-style-type: none"> <li>• Right cones</li> <li>• Right cylinders</li> <li>• Right prism</li> <li>• Right pyramids</li> <li>• Spheres</li> </ul>						
<b>3. I can convert between SI and Imperial units of measure</b>						
<b>4. I can use trigonomic ratios to solve problems that have a right triangle</b>						

# Rethinking Letter Grades



# 1. Standards based vs. standardized curriculum

Kristine Nanni YoungTeacherLove

## Standards Based Grading

...helps teachers:

Give quality feedback

In the traditional grade book, Katie and her parents would see her grades and think she is getting by just fine.

But standards based grading reveals that she has not completely mastered the standards.

### Traditional Grade Book

Name	Homework	Quiz 1	Quiz 2	Chapter 2 Test
Katie	90%	88%	82%	80%
Joe	60%	75%	88%	70%
Sara	10%	90%	98%	100%
John	100%	50%	60%	54%

### Standards Based Grade Book

Name	Standard 1: use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	Standard 2: Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.	Standard 3: Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane.
Katie	4	2	2
Joe	2	3	1



Biology 20-1: Energy and Matter Exchange in the Biosphere

<p><b>Our Unit Questions</b></p> <ul style="list-style-type: none"> <li>How are carbon, oxygen, <u>nitrogen</u> and phosphorus cycled in the biosphere?</li> <li>How is the flow of energy balanced in the biosphere?</li> <li>How have human activities and technological advances affected the balance of energy and matter in the biosphere?</li> </ul>
--

General Learning Outcome: Students will understand the constant flow of energy through the biosphere and ecosystems.		
Unit Goals: Curricular Language	Student Friendly Language	
<p><b>Knowledge</b></p> <p><b>20–A1.1k</b> Students will: explain, in general terms, the one-way flow of energy through the biosphere and how stored energy in the <b>biosphere</b>, as a system, is eventually “lost” as heat</p> <p><b>20–A1.2k</b> Students will: explain how energy in the biosphere can be perceived as a balance between both photosynthetic and chemosynthetic activities and cellular respiratory activities</p> <p><b>20–A1.3k</b> Students will explain the structure of ecosystem trophic levels, using models such as food chains and food webs</p> <p><b>20–A1.4k</b> Students will explain, quantitatively, the flow of energy and the exchange of matter in aquatic and terrestrial ecosystems, using models such as pyramids of numbers, <u>biomass</u> and energy</p>	<p><b>Knowledge</b></p> <p>I know how energy is used in a biosphere (stored, transferred, lost)</p> <p>I know that energy in different biospheres is balanced and cycles</p> <p>I know how biospheres are interconnected</p> <p>I know what an ecosystem is and how it is organized</p> <p>I know how energy moves in an ecosystem</p> <p>I know how to represent the movement of energy in ecosystems using a model</p>	
	<p><b>STS</b></p> <p><b>20–A1.1sts</b> Students will: explain that the process of scientific investigation includes analyzing evidence and providing explanations based upon scientific theories and concepts</p>	<p><b>STS</b></p> <p>I can connect what I am learning about biospheres to real life examples and events</p>
	<p><b>Specific Outcomes for Skills</b></p> <p><b>Initiating and Planning</b></p> <p><b>20–A1.1s</b> Students will: formulate questions about observed relationships and plan investigations of questions, ideas, problems, and issues</p> <p><b>Performing and Recording</b></p> <p><b>20–A1.2s</b> Students will: conduct investigations into relationships among observable variables and use a broad range of tools and techniques to gather and record data and information perform an experiment</p> <p><b>Analyzing and Interpreting</b></p> <p><b>20–A1.3s</b> Students will: analyze data and apply mathematical and conceptual models to develop and assess possible solutions</p> <p><b>Communication</b></p> <p><b>20–A1.4s</b> Students will: work collaboratively in addressing problems and apply the skills and conventions of science in communicating information and ideas and in assessing results</p>	<p><b>Specific Outcomes for Skills</b></p> <p>I can <b>initiate</b> and <b>plan</b> by:</p> <ul style="list-style-type: none"> <li>by asking questions about what I observe in my environment</li> <li>by making predicting based on what I observe</li> </ul> <p>I can <b>investigate</b> and <b>record my observations</b> by:</p> <ul style="list-style-type: none"> <li>using different tools and techniques to gather data</li> <li>complete an experiment</li> </ul> <p>I can <b>analyze</b> and <b>interpret</b> by:</p> <ul style="list-style-type: none"> <li>looking for patterns in my data to help me understand what is happening</li> <li>connecting my data to other scenarios and contexts</li> <li>coming up with some possible solutions or explanations for what is happening</li> <li>organizing and displaying my data in ways that make sense to me</li> </ul> <p>I can <b>communicate</b> my findings by:</p> <ul style="list-style-type: none"> <li>using SI units and Sig Digs</li> <li>presenting my findings so it makes sense to others (modes representation)</li> </ul>

Learning Outcome Progressions: Bio 20-1

What do I need to know?

20–A1.1k: I know how energy is used in a biosphere (stored, transferred, lost)				
Approaching	Emerging	Developing	Confident	Extending
The sun and plants work together to form energy	I know what photosynthesis and chemosynthesis and cellular respiration is and examples of each	I know how photosynthesis, chemosynthesis and cellular respiration are connected	I know how energy is transferred by conduction, radiation, and convection, and examples	I know limitations and problems of how energy is used in existing and/or potential biospheres

20–A1.2k I know that energy in different biospheres is balanced and cycles; I know how biospheres are interconnected				
Approaching	Emerging	Developing	Confident	Extending
I know why I need the sun and plants I know why plants need me	I know the products of photosynthesis, chemosynthesis, and cellular respiration	I know that there can be balance or imbalance between photosynthesis, chemo synthesis and cellular respiration	I know the impact of imbalance in photosynthesis and chemosynthesis and cellular respiration (global warming)	I know the pros/cons to possible solutions in imbalances of photosynthesis and chemosynthesis and cellular respiration

20–A1.3k I know what an ecosystem is and how it is organized				
Approaching	Emerging	Developing	Confident	Extending
I know what a food chain is	I know trophic levels and examples in the world	I know how to show trophic levels on different models	I know how trophic levels are connected to each other	I know the impact of deleting a trophic level







# Standards Based Grade Book – Math 10 C: Measurement

## Essential Understanding: Students understand spatial sense and proportional reasoning

Learning Outcomes	<b>1. I can solve problems by:</b> <ul style="list-style-type: none"> <li>Using different units of measure</li> <li>Estimating</li> <li>Using measurement strategies</li> </ul>					<b>2. I can find the surface area and volume of 3D objects including:</b> <ul style="list-style-type: none"> <li>Right cones</li> <li>Right cylinders</li> <li>Right prism</li> <li>Right pyramids</li> <li>Spheres</li> </ul>					<b>3. I can convert between SI and Imperial units of measure</b>					<b>4. I can use trigonometric ratios to solve problems that have a right triangle</b>				
Levels of Complexity	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending
Student	•	•				•	•				•	•			•					
Student	•					•					•	•			•					
Student	•	•	•	•		•	•				•	•								
Student	•	•	•			•									•					
Student	•					•	•				•	•	•							

# Standards Based Grade Book – Math 10 C: Measurement

## Essential Understanding: Students understand spatial sense and proportional reasoning

Learning Outcomes	<b>1. I can solve problems by:</b> <ul style="list-style-type: none"> <li>Using different units of measure</li> <li>Estimating</li> <li>Using measurement strategies</li> </ul>					<b>2. I can find the surface area and volume of 3D objects including:</b> <ul style="list-style-type: none"> <li>Right cones</li> <li>Right cylinders</li> <li>Right prism</li> <li>Right pyramids</li> <li>Spheres</li> </ul>					<b>3. I can convert between SI and Imperial units of measure</b>					<b>4. I can use trigonometric ratios to solve problems that have a right triangle</b>				
Levels of Complexity	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending
	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW
Student	•	•				•	•				•	•				•				
Student	•					•					•	•				•				
Student	•	•	•	•		•	•				•	•								
Student	•	•	•			•										•				
Student	•					•	•				•	•	•							

# Standards Based Grade Book – Math 10 C: Measurement

## Essential Understanding: Students understand spatial sense and proportional reasoning

Learning Outcomes	<b>1. I can solve problems by:</b> <ul style="list-style-type: none"> <li>Using different units of measure</li> <li>Estimating</li> <li>Using measurement strategies</li> </ul>					<b>2. I can find the surface area and volume of 3D objects including:</b> <ul style="list-style-type: none"> <li>Right cones</li> <li>Right cylinders</li> <li>Right prism</li> <li>Right pyramids</li> <li>Spheres</li> </ul>					<b>3. I can convert between SI and Imperial units of measure</b>					<b>4. I can use trigonometric ratios to solve problems that have a right triangle</b>				
Levels of Complexity	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending
	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW
Student	•	•				•	•				•	•				•				
Student	•					•					•	•				•				
Student	•	•	•	•		•	•				•	•								
Student	•	•	•			•										•				
Student	•					•	•				•	•	•							

# Standards Based Grade Book – Math 10 C: Measurement

## Essential Understanding: Students understand spatial sense and proportional reasoning

Learning Outcomes	1. I can solve problems by: <ul style="list-style-type: none"> <li>Using different units of measure</li> <li>Estimating</li> <li>Using measurement strategies</li> </ul>					2. I can find the surface area and volume of 3D objects including: <ul style="list-style-type: none"> <li>Right cones</li> <li>Right cylinders</li> <li>Right prism</li> <li>Right pyramids</li> <li>Spheres</li> </ul>					3. I can convert between SI and Imperial units of measure					4. I can use trigonometric ratios to solve problems that have a right triangle				
Levels of Complexity	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending
	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW
Student	•	•				•	•				•	•				•				
Student	•	■				•	■				•	•				•				
Student	•	•	•	•		•	•				•	•			■	■				
Student	•	•	•			•	■				■	■				•				
Student	•	■				•	•				•	•	•		■	■				

# Standards Based Grade Book – Math 10 C: Measurement

## Essential Understanding: Students understand spatial sense and proportional reasoning

Learning Outcomes	1. I can solve problems by: <ul style="list-style-type: none"> <li>Using different units of measure</li> <li>Estimating</li> <li>Using measurement strategies</li> </ul>					2. I can find the surface area and volume of 3D objects including: <ul style="list-style-type: none"> <li>Right cones</li> <li>Right cylinders</li> <li>Right prism</li> <li>Right pyramids</li> <li>Spheres</li> </ul>					3. I can convert between SI and Imperial units of measure					4. I can use trigonometric ratios to solve problems that have a right triangle				
Levels of Complexity	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending
	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW
Student	•	•				•	•				•	•				•				
Student	•	•				•	•				•	•				•				
Student	•	•	•	•		•	•				•	•				•	•			
Student	•	•	•			•	•				•	•	•	•		•	•			
Student	•	•				•	•				•	•	•			•	•			

# Standards Based Grade Book – Math 10 C: Measurement

## Essential Understanding: Students understand spatial sense and proportional reasoning

Learning Outcomes	1. I can solve problems by:					2. I can find the surface area and volume of 3D objects including:					3. I can convert between SI and Imperial units of measure					4. I can use trigonometric ratios to solve problems that have a right triangle					Evaluation Date:			
	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Approaching	Minimally Meeting / Emerging	Meeting / Developing	Fully Meeting / Proficient	Extending	Total	Out of	%	Letter Grade
	2.5		3	4	5	2.5		3	4	5	2.5		3	4	5	2.5		3	4	5	20	20		
	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW	ALL	ALL	MOST	SOME	FEW	20	20		
Student	•	•				•	•				•	•				•	•				10	20	50%	Pass
Student	•	•	•	•		•	•	•	•		•	•	•	•		•	•	•	•		16	20	80%	A-
Student	•	•	•	•		•	•				•	•				•	•	•			IEA	20		IEA
Student	•	•	•	•		•	•	•	•	•	•	•			•	•	•				15	20	75%	B
Student	•	•	•	•		•	•				•	•	•	•		•	•	•	•		13.5	20	68%	C+



# Backwards Design – Designing the Airplane

<b>Class: Gr. 6/7</b>		<b>Planning Team: Shackles, Locke &amp; Moore</b>	
<b>Essential Question:</b> What does it mean to be personally aware and responsible and how can this help me in my life inside and outside of school?			
<b>Key vocabulary:</b>		goal, celebrate, effort, accomplishment, persevere, advocate, plan, initiative	
<b>Goals</b>			
<b>Competency Goal</b>		I can be personally aware and responsible by being <b>self determined</b>	
<b>Competency Goal</b>		I can be personally aware and responsible by being <b>self regulated</b>	
<b>Summative Tasks (Self Evaluation)</b>			
<b>New format</b> (3D model)		Create a 3D model that represents your understanding of being personally aware & responsible	
<b>Choice Format</b> (letter, comic book, conversation)		Describe how being personally aware & responsible connects to and can help you in your own life	

# Learning Maps: Making the Airplane Adjustable

Class: Gr. 6/7

Planning Team: Shackles, Locke & Moore

**Essential Question:** What does it mean to be personally aware and responsible and how can this help me in my life inside and outside of school?

**Key vocabulary:** goal, celebrate, effort, accomplishment, persevere, advocate, plan, initiative

## Goal Continuums

I can be personally aware and responsible by:

Start Here 

Goal	Access Goal (plate)	Goal for ALL (potato)	Goal for MOST (dairy)	Goal for FEW (bacon bits)
being self determined	<ul style="list-style-type: none"> <li>I can set a <b>goal</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>celebrate</b> my <b>efforts</b> and <b>accomplishments</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>advocate</b> for my myself and my ideas</li> </ul>	<ul style="list-style-type: none"> <li>I can take <b>initiative</b> and make change in myself and the world</li> </ul>
being self regulated	<ul style="list-style-type: none"> <li>I can <b>accomplish</b> a goal</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>persevere</b> through challenging tasks</li> </ul>	<ul style="list-style-type: none"> <li>I can implement a <b>plan</b> that I have made to meet a <b>goal</b></li> </ul>	<ul style="list-style-type: none"> <li>I can adjust a <b>plan</b> that I have made to meet a goal</li> </ul>

# The Lessons!



Shelley Moore, 2019

2016  
May. 12

Dear Mrs. Shackles

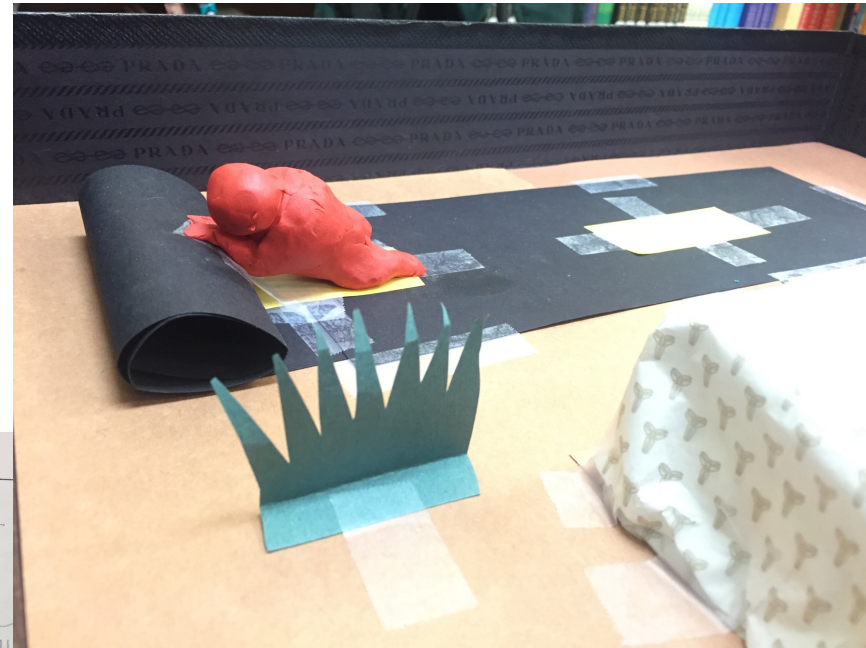
At the begining of this unit I thought self-determination was imrove myself, but now I noticed self-determination was more than just imrove myself, it's cross the limit of yourself and thinking.

For example, Redmond's leg was injured during in the Olympics, but he pushed himself over his limit and run. Same as his father, his father was crossed over the crowded medias, and help Redmond finished race.

This unit was very important because it let me know that no matter how hard the obstacle is, how long the road is, you can still do it if you have hope and believe.

Even you can't change completely, but you can struggle and make it better, just like He run around the Canada leg. He know he's going to because the cancer. So he did and wait, he fight with the mated to the finished line.

This unit inspired me. I know that if I can be I can make a history.



Date	Name
Self-determination	joy
Growth mindset	fixed mindset

# How do we change the system? Design with Equity in Mind

