# SHELLEY MOORE



@tweetsomemoore



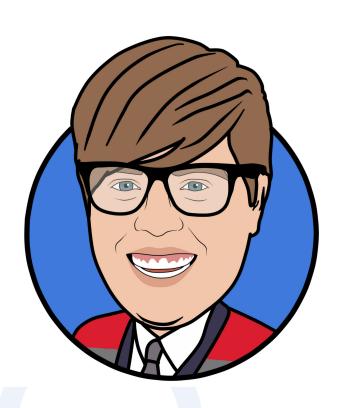
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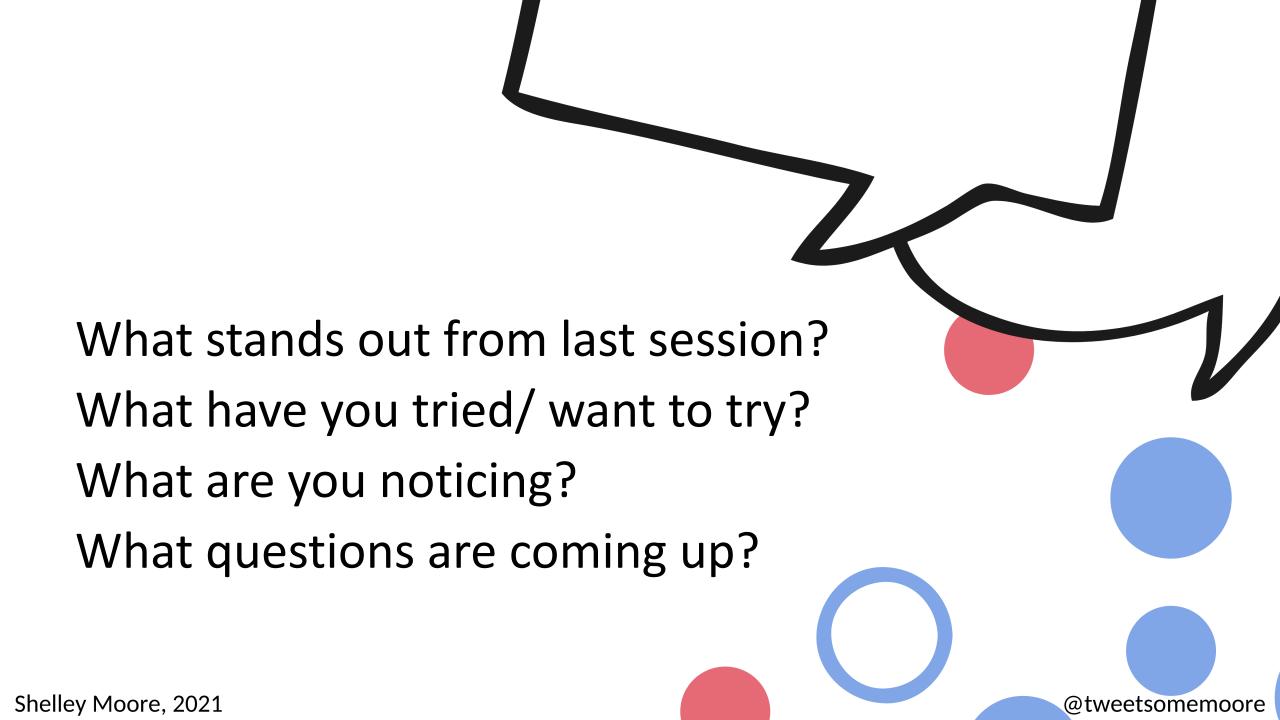
NEXWLéLEXM (BOWEN ISLAND)

• The Islands Trust council acknowledges that the lands and waters that encompass the Islands Trust Area have been home to Indigenous peoples since time immemorial and honours the rich history, stewardship, and cultural heritage that embody this place we all call home.

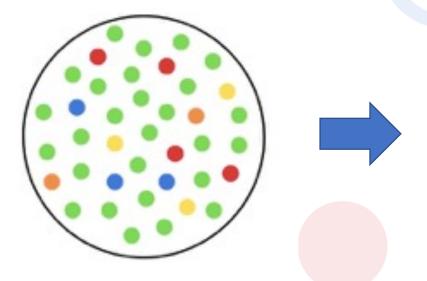
• The Islands Trust council is committed to establishing and maintaining mutually respectful relationships between Indigenous and non-Indigenous peoples. Islands Trust states a commitment to Reconciliation with the understanding that this commitment is a long-term relationship-building and healing process.

• The Islands Trust council will strive to create opportunities for knowledge-sharing and understanding as people come together to preserve and protect the special nature of the islands within the Salish Sea.

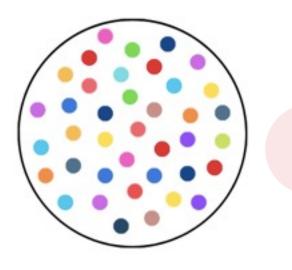




### How do we DO inclusion?



How do we include people who are different



How do we teach to diversity?



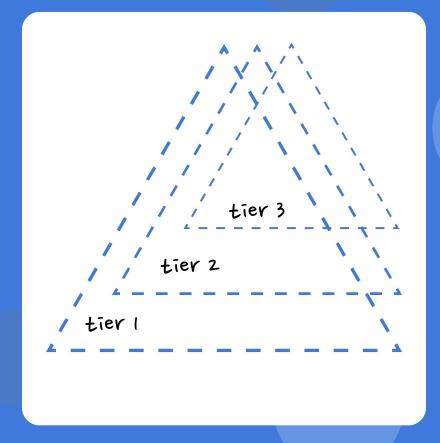
### The cupcake model The layered cake model



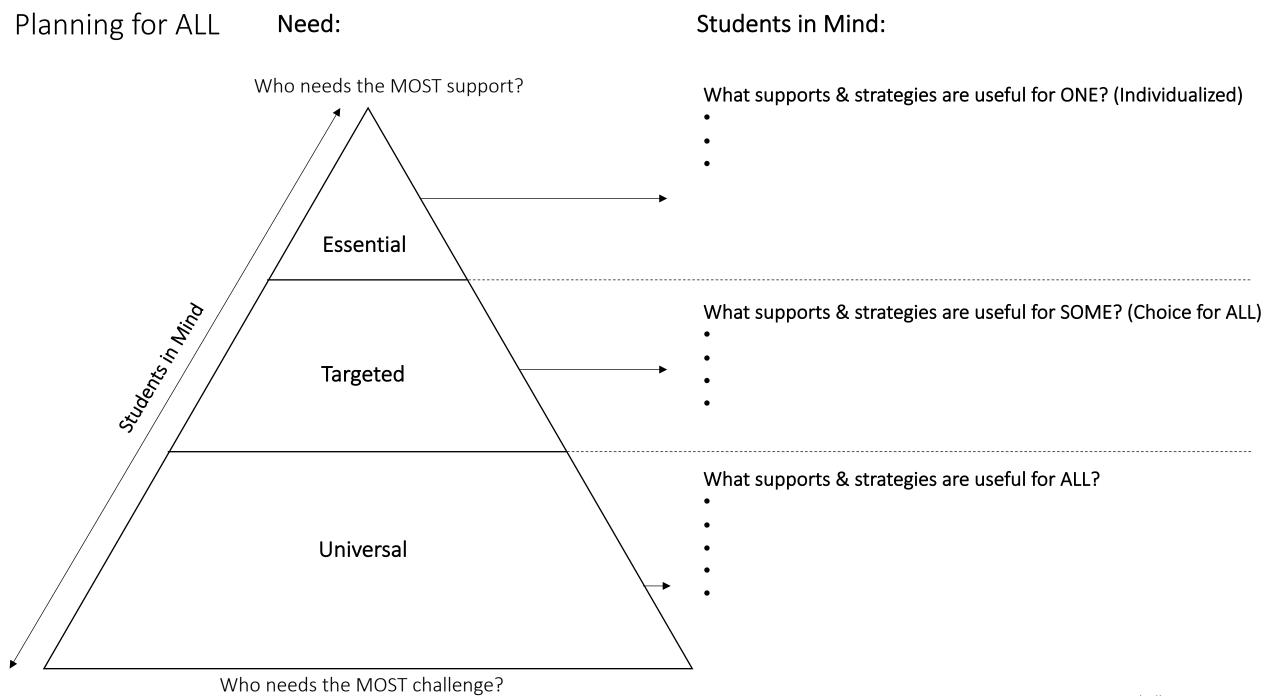
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### RTI: RESPONSE TO INSTRUCTION







#### **Strategy: Designing a Needs Based Classroom Support Plan**

Classroom Support Plan			
Teacher(s): Su	pport Staff: Lens:		
	Rar	nge of Support (MTLS)	
Students		Strategies & Supports	
who needs the most support	Universal Support (Good for ALL)	Targeted Support (CHOICE for ALL)	Essential Support (Good for ONE)
Need			 
Need		     	
Need			
Need			
Need		       	     
who needs the most challenge		•	•

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

Where are we going?

Curriculum & Assessment Design

a choice of challenge

Who are we Teaching?

### **Students**

**Building Student Agency** 

Needs Based Design

How will we support them?

Adjustable Supports

Student choice of Strategies

Instructional Design

How will we teach them?

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

Where are we going?

Curriculum & Assessment Design

Who are we Teaching?

### **Students**

**Building Student Agency** 

**Needs Based** Design

How will we support them?

**Adjustable Supports** 

Student choice of Strategies

Instructional Design

How will we teach them?

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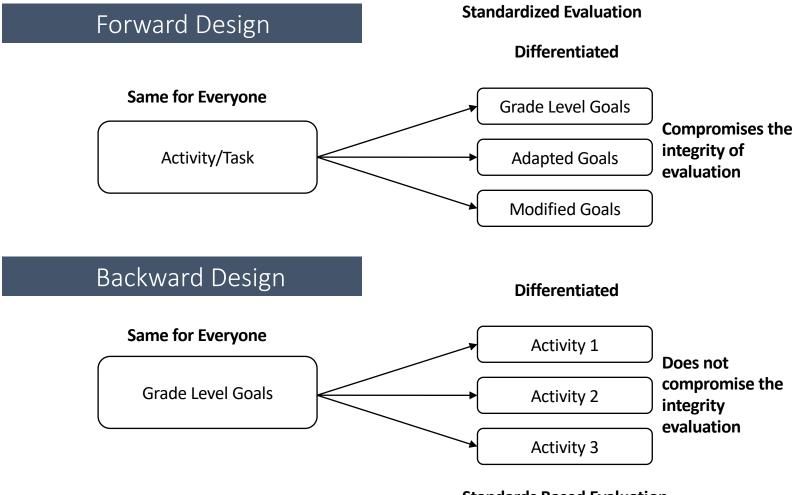
Student choice of Strategies

Instructional Design

How will we teach them?

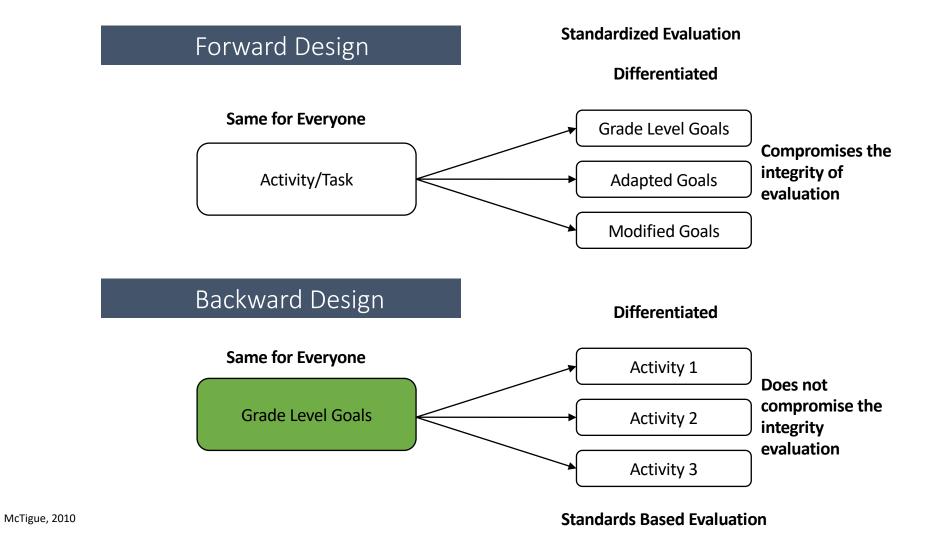
### **BACKWARDS DESIGN**





McTigue, 2010

**Standards Based Evaluation** 



### 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?

What do you notice?

### 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?
- What attitudes do they need to display?

### What do you notice?

### Backwards Design

What do we need to UNDERSTAND?

What do we need to KNOW?

What do we need to DO?

Who do we need to **BECOME?** 

### Backwards Design

What do we need to UNDERSTAND?

I understand ...

What do we need to KNOW?

I know...

What do we need to DO?

I can...

Who do we need to **BECOME?** 

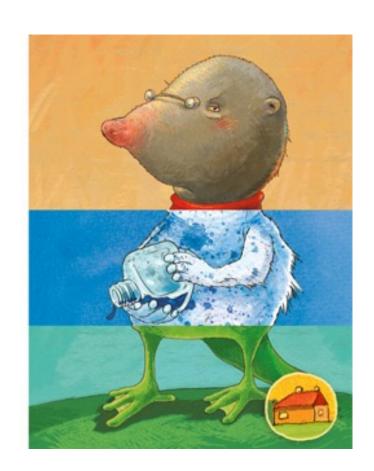
I can become...

# Curriculum as a flip book





Lizard

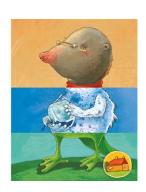


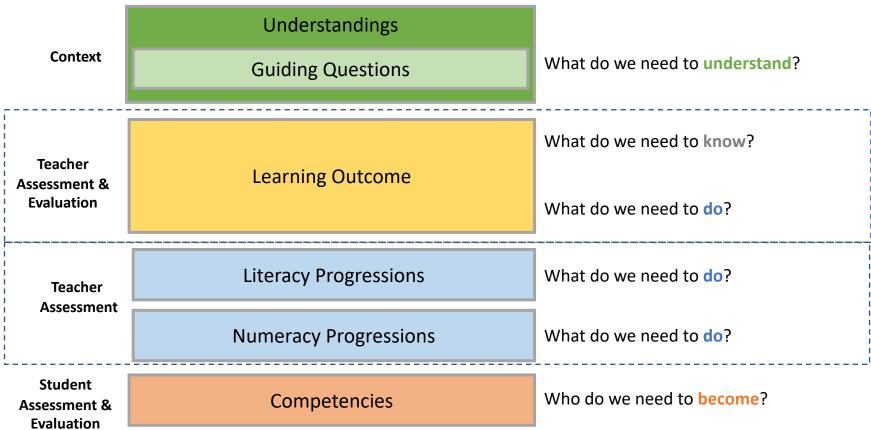
### The Backwards Design FLIPBOOK Alberta's Renewed/Renewed Curriculum











Grade:	Subject(s):	Planning Team:			
Curricular Language		Student Friendly Language			
Organizing Idea					
Our Guiding Unit/Ess	ential Question(s):				
Learning Outcome:		I can			
Literacy & Numeracy Progressions		We can			
Competencies		We can			
Important vocabulary to know and use:					

Grade: 2	Subject(s): Science	Planning Team: Kim (CT2), Shelley, Jessica (PA), Raime (P), Kendra (DI)		
Our Guiding Unit Question: How does water impact living things in the environment?		Student Friendly: What is water? Why is water important to living things?		
Learning Outcome:  Students investigate characteristics of water and the importance of water to living things in the environment.		Student friendly: I can investigate water I know that water is important to living things and the environment		
Numeracy:		We can collect data We can communicate our learning		
Literacy:		We can use strategies to help us understand text		
Competency:		We can be cultural and global citizens		
Important vocabulary to know	w and use:			

WaterCitizensInvestigateEnvironmentStrategiesCollect dataLiving thingscommunicateText

Grade: 3	Subject(s): LA	Planning Team:		
How can text organization enhance meaning?		Student Friendly: What is text? How is it organized? How does the organization of text help me understand it?		
Learning Outcome: Students relate the form and structure of texts to the communication of ideas and information.		Student friendly: I know how text is organized and used to share information I can use the organization of text to help me understand what I am reading		
Numeracy:		We can collect data We can communicate our learning		
Literacy:  Competency:		We can use strategies to help us understand text		
		We can manage information		
Lorenzo auto out. Lorenzo la collega de lorenzo	•			

#### Important vocabulary to know and use:

Text, organization, form, structure, ideas, information, enjoyment, fiction, non-fiction, interests, imagination, facts, stories, beginning, problem, events, solutions, ending, digital,

### Backwards Design: Previous Curriculum Gr 7-12

What types of goal are in the curriculum?

#### Content

What do we need to know?

#### Process

- What do we need to do?
- What attitudes do they need to display?

### **Backwards Design Alberta Goals Cheat Sheet**

Backward Design Element	In Science it is called:	In Social Studies it is called:	In Math it is called:	In Language Arts/English it is called:
<b>Topic:</b> What is the theme/topic/context?	Unit of Study	Title	Strand	Theme of choice
Big Idea: What do we need to understand? Why are we learning this?	Overview	General Learning Outcome (GLO)	General Learning Outcome (GLO)	General Learning outcome (GLO)
Guiding Question: Turning the BIG IDEA into a questions for the students	Focus Questions	Make it out of the GLO	Make it out of the GLO	Make a question out of the theme
Content Goals: What do we need to know?	STS & Knowledge (Teacher Evaluation)	Knowledge & Understandings (Teacher Evaluation)	Specific Outcomes (Teacher Evaluation)	none
Process Goals: What do we need to do?	Skills (Teacher Evaluation)	Values & Attitudes	Skills & Processes (Teacher Assessment)	Specific learning outcomes
	Attitudes	Dimensions of Thinking		(Teacher Evaluation)

Shelley Moore, 2019

Grade:	Subject Area:	Planning Team:
Big Idea(s): What do I need to Understand?		Unit Guiding Question(s):
Vov Vocabularu		

#### **Key Vocabulary:**

	Curricular Language	Student Friendly Language
What do students need to know? Content Goals		I know
What do students need to do? Skills/Process Goals		I can
What do students need to do? Skills/Process Goals		I can
What do students need to do? Skills/Process Goals		I can
Who do student need to be? Attitudes	I can become/ I am	

Backwards Design Plan: Science 8 - Mechanical Systems Planning Team: Kristina and Team Grimshaw (and FHS)

<b>Big Idea:</b> Machines are used for many purposes in our daily lives when we need to transfer energy into motion or move materials in a controlled way.		Our Unit Questions: How is energy transferred in mechanical devices? How do mechanical devices provide for controlled application of energy in ways that are efficient, effective and responsible?	
me	ntent vocabulary to know and use: chanical devices, structures, functions, machines, psystems, component parts, system, force,	Skill vocabulary to know and use: initiate, plan, variables, investigating, researching, data,	
cor	ergy, transmission, mechanical system, social ntexts, environmental contexts		alitative, quantitative
STS Outcomes	Unit Goals: Curricular Language    Illustrate the development of science and technology by describing, comparing, and interpreting mechanical devices that have been improved over time  Analyze machines by describing the structures and functions of the overall system, the subsystems and the component parts    Investigate and describe the transmission of force and energy between parts of a mechanical system  Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices		I know how science and technology has impacted the development of mechanical devices I know how mechanical devices have improved over time I know the structures and functions of different machines I know how subsystems and component parts work together in an overall system I know how the force and energy moves (transmission) between the different parts of a mechanical system I know how the development of mechanical devices impacts social and environmental contexts
Targeted Skill Outcomes	Initiating and Planning: Ask questions about the relationships between and among observable variables, and plan investigations to address those questions  Analyzing and Interpreting: Analyze qualitative	Targeted Skill Outcomes	I can initiate and plan by:  asking questions about how things (variables) are related to each other  investigating and researching into questions I ask  I can analyze and interpret by:
comes	and quantitative data, and develop and assess possible explanation		<ul> <li>using my senses to understand and explain data (qualitative)</li> <li>using amounts, numbers and values to understand and explain data (quantitative)</li> </ul>
Targeted Attitudes	Interest in Science: Show interest in science- related questions and issues, and pursue personal interests and career possibilities within science-related fields	<b>Targeted Attitudes</b>	I can be interested in science by: participating, engaging in discussion, willing to complete assignments and tasks, asking questions, learning about science for fun, finding ways to connect to science topics, getting creative in science, knowing why science could be useful to life in the future/ possible careers in science)

Focus Questions: How have humans attained a <u>presence</u> in space? What technologies have been developed and on what scientific ideas are they based? How has the development of these technologies contributed to the exploration, use and understanding of space and to benefits on Earth?	Student Friendly Language: How do humans go to and interact with space? How has technology been used to understand and explore space? How does understand space help to understand the Earth?
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Voc	Vocabulary to know and use:			
Uni	t Goals: Curricular Language	Stu	Student Friendly Language	
STS	Investigate and describe ways that human understanding of Earth and space has depended on technological development by:	STS	I can explore and describe how humans use and need technology to understand the Earth the space	
	Identify problems in developing technologies for space exploration, describe technologies developed for life in space, and explain the scientific principles involved		I can understand and describe technologies that have been developed for exploring space and for life in space I can find problems in the technologies that have been and are being developed	
	Describe and interpret the science of optical and radio telescopes, space probes and remote sensing technologies		I can explain the science of some specific technologies	
	Identify issues and opportunities arising from the application of space technology, identify alternatives involved, and analyze implications		I can find problems and see potential in studying space and space technology	
Skills Outcomes	Initiating and Planning: Ask questions about the relationships between and among observable variables, and plan investigations to address those questions	Skills Outcomes	I can initiate and plan by o asking questions o investigating and researching to find answers to those questions	
omes	Communication and Teamwork: Work collaboratively on problems; and use appropriate language and formats to communicate ideas, procedures, and results	omes	I can communicate and work as a team by:  o solving problems and communicating ideas	
Attitude Outcomes	Scientific Inquiry: Seek and apply evidence when evaluating alternative approaches to investigations, problems, and issues (e.g., seek accurate data that is based on appropriate methods of investigation; consider observations and ideas from a number of sources before drawing conclusions)	Attitude Outcomes	I can be a scientific researcher by:  o finding evidence to answer questions and solving problems	
comes	Stewardship: Demonstrate sensitivity and responsibility in pursuing a balance between the needs of humans and a sustainable environment (e.g., consider immediate and long- term consequences of personal and group actions; objectively identify potential conflicts between responding to human wants and needs and protecting the environment)	comes	I can show stewardship by:  o Finding out about and understanding ideas from different perspectives, including stakeholders, that is connected to a problem or event	
	Collaboration: Work collaboratively in carrying out investigations and in generating and evaluating ideas (e.g., work with others to identify problems and explore possible solutions; share observations and ideas with other members of the group, and consider alternative ideas suggested by other group members; share the responsibility for carrying out decisions)		I can collaborate by:  o working together to build ideas and solve problems	
Competencies	critical Thinking     questioning and analyzing evidence, assertions, or assumptions     demonstrating intellectual integrity, fairness, and open-mindedness	Competencies	I can be a critical thinker by:  o questioning what I know by understanding evidence from multiple perspectives  o being open minded to learn new things and to change my thinking and my ideas based on what I am learning (growth mindset)	

#### Backwards Design Plan: Socials 20-4

Planning Team:

**Big Idea:** Students will examine the effects of nationalism, ultranationalism and the pursuit of the national interest.

Our Unit Questions: What is nationalism? Why is it important? What are the effects of nationalism?

Voc	Vocabulary to know and use:			
Uni	it Goals: Curricular Language	Student Friendly Language		
Value	20-4.2a appreciate that <b>nations</b> and states pursue the <b>national interest</b>	Value	I understand why nations try and build national interest	
es &	20-4.2b appreciate multiple <b>perspectives</b> related to the pursuit of the <b>national interest</b>	es &	I understand why it is important to include different perspectives when building national interest	
Knowledge	20-4.2c explore a range of expressions of national interest	Knowledge	I learn about different ways that <b>national</b> interest is shown or expressed	
& U	20-4.2d explore the <b>relationship</b> between <b>nationalism</b> and the pursuit of the <b>national interest</b>	& U	I can learn about how nationalism and building national interest connects to each other	
nderstanding	20-4.2e examine similarities and differences between nationalism and ultranationalism	nderstanding	I can look at how <b>nationalism</b> and ultranationalism are the same and different	
andin	20-4.2f identify the effects of <b>nationalism</b> and <b>ultranationalism</b> during times of <b>conflict</b>	andin	I can tell the effects of nationalism and ultranationalism during conflict	
64	20-4.2g examine ultranationalism as a cause of genocide	04	I can look at how ultranationalism can lead to genocide	
	20-4.2h examine the <b>relationship</b> between <b>nationalism</b> and <b>national self-determination</b>		I can look at how nationalism and national self-determination connect to each other	

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

- Our Unit Questions

   How are carbon, oxygen, nitrogen and phosphorus cycled in the biosphere?
  - How is the flow of energy balanced in the biosphere?
  - How have human activities and technological advances affected the balance of energy and matter in the biosphere?

	General Learning Outcome: Students will understand the constant flow of energy through the biosphere and ecosystems.			
Unit	t Goals: Curricular Language	Stud	Student Friendly Language	
Knowledge	<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	Knowledge	I know how energy is used in a biosphere (stored, transferred, lost)	
	<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		I know that energy in different biospheres is balanced and cycles I know how biospheres are interconnected	
	20–A1.3k Students will explain the structure of ecosystem trophic levels, using models such as food chains and food webs		I know what an ecosystem is and how it is organized	
	20–A1.4k 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, biomass and energy		I know how energy moves in an ecosystem I know how to represent the movement of energy in ecosystems using a model	
STS	20–A1.1sts Students will: explain that the process of scientific investigation includes analyzing evidence and providing explanations based upon scientific theories and concepts	STS	I can connect what I am learning about biospheres to real life examples and events	
Specific Outcomes for Skills	Initiating and Planning 20–A1.1s Students will: formulate questions about observed relationships and plan investigations of questions, ideas, problems, and issues  Performing and Recording 20–A1.2s 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	Specific Outcomes for Skills	I can initiate and plan by:  by asking questions about what I observe in my environment  by making predicting based on what I observe  I can investigate and record my observations by:  using different tools and techniques to gather data  complete an experiment	
8	Analyzing and Interpreting 20–A1.3s Students will: analyze data and apply mathematical and conceptual models to develop and assess possible solutions		I can analyze and interpret by:         looking for patterns in my data to help me understand what is happening         connecting my data to other scenarios and contexts         coming up with some possible solutions or explanations for what is happening         organizing and displaying my data in ways that make sense to me	
	Communication 20–A1.4s Students will: work collaboratively in addressing problems and apply the skills and conventions of science in communicating information and ideas and in assessing results		I can communicate my findings by: using SI units and Sig Digs presenting my findings so it makes sense to others (modes representation)	

Grade: 20-2 Subject Area: Math	Planning Team: Kim and team
Big Idea(s): What do I need to understand? I understand algebraic and graphical reasoning through the study of relations	Unit Guiding Question(s): What is algebra and why is it useful? How can we see and understand the relationships between given algebraic scenarios? How are algebraic equations and graphs connected? How can I use graphing to show algebraic equations? How can I understand an algebraic scenario by looking at information in a

**Key Vocabulary:** algebra, relationships, algebraic scenarios, algebraic equations, graph, quadratic function, vertex, intercepts, axis of symmetry, domain, range, factors, factoring, ordered pairs, coordinates, x, y, polynomials, roots, quadratic equation, substitution, verify

	Curricular Language	Student Friendly Language				
What do students need to know? Specific Outcome 1.	Demonstrate an understanding of the characteristics of quadratic functions, including:  • vertex  • intercepts domain and range axis of symmetry.	I know what quadratic functions are I know that quadratic functions have a vertex, intercepts, and an axis of symmetry I know that quadratic functions are defined by their domain and range				
What do students need to do? Specific Outcome 2.	Solve problems that involve quadratic equations.	I can solve problems that use quadratic equations				
Who do student need to be? Mathematical Processes	CN, PS, T, V, C, R	I can make connections to help me understand I can problem solve in math I can use technology as a tool I can visualize as a strategy to help me understand I can communicate my thinking I can reason by justifying my thinking				

Name:		Date:									
Unit Guiding questions: What is algebra and why is it useful? How can we see and understand the relationships between given algebraic scenarios? How are algebraic equations and graphs connected? How can I use graphing to show algebraic equations? How can I understand an algebraic scenario by looking at information in a graph?											
Learning Outcomes	My evidence of learning		Showing m	ny Learning	port						
	Actvtivities/ tasks		concrete	pictorial	abstract	I Need Support	I Need Challenge				
<ul> <li>I know what quadratic functions are</li> <li>I know that quadratic functions have a vertex, intercepts, and an axis of symmetry</li> <li>I know that quadratic functions are defined by their domain and range</li> </ul>											
I can solve problems that use quadratic equations											

### 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)

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