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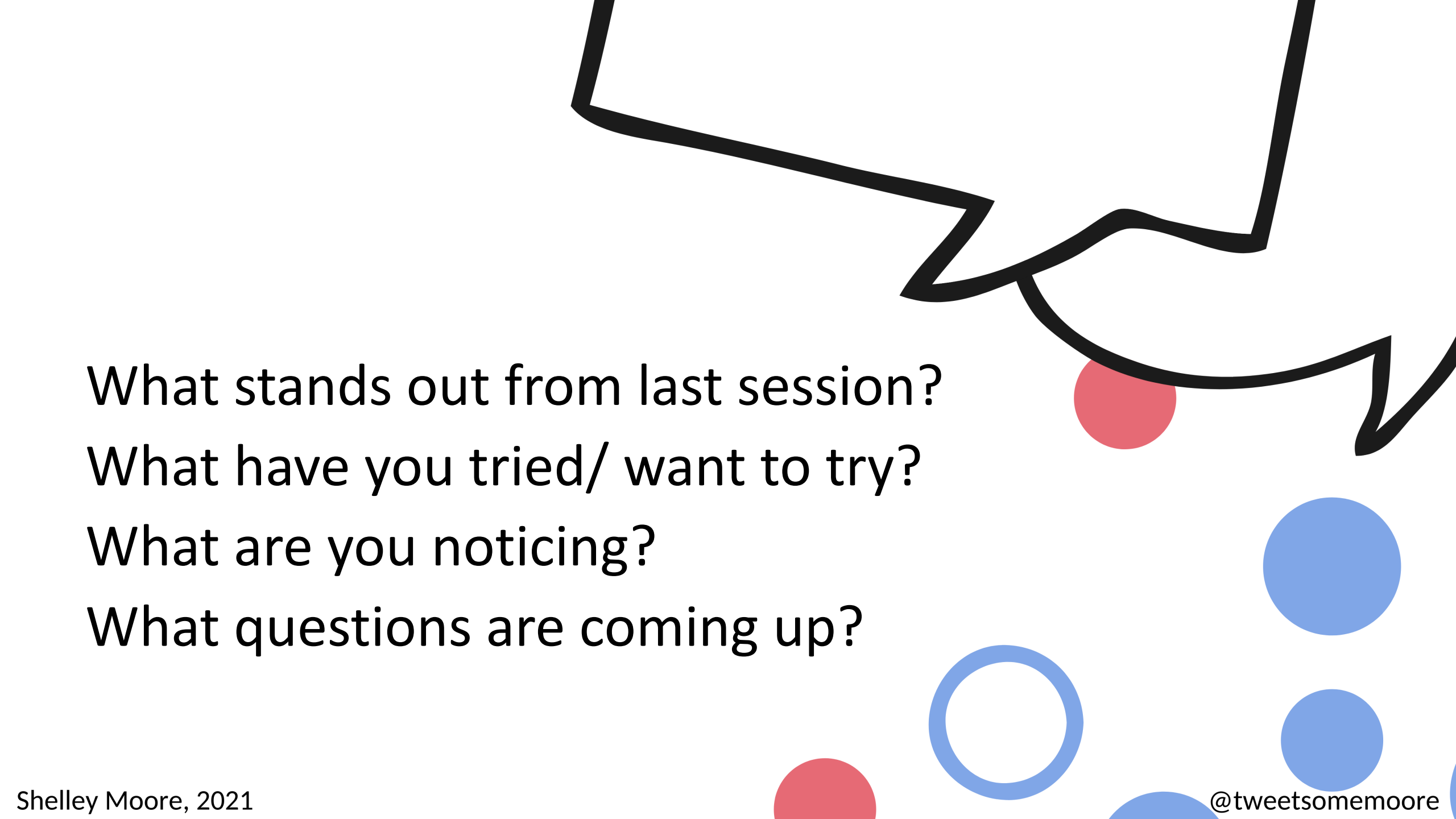
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NEXWLÉLEXM (BOWEN ISLAND)

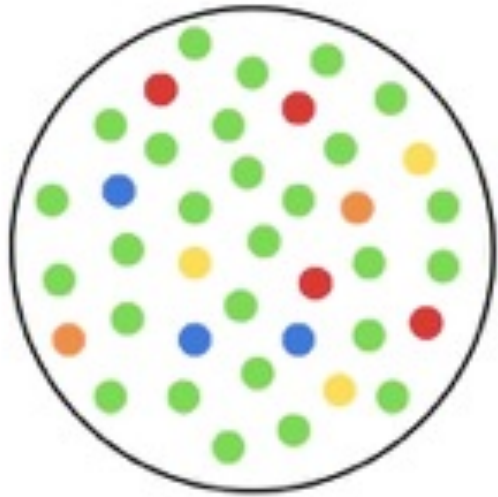
- The Islands Trust council acknowledges that the lands and waters that encompass the Islands Trust Area have been **home to Indigenous peoples** since **time immemorial** and honours the **rich history, stewardship, and cultural heritage** that embody this place we all call home.
- The Islands Trust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



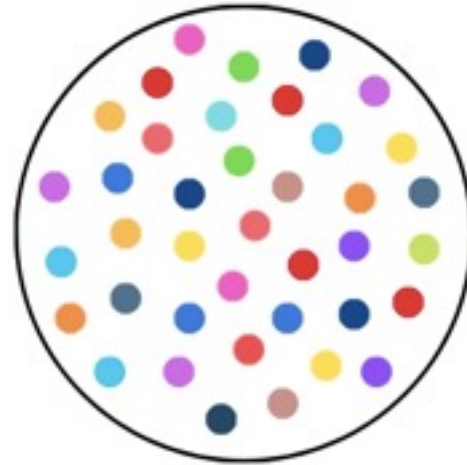
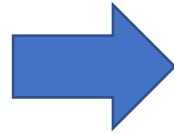


What stands out from last session?
What have you tried/ want to try?
What are you noticing?
What questions are coming up?

How do we DO inclusion?

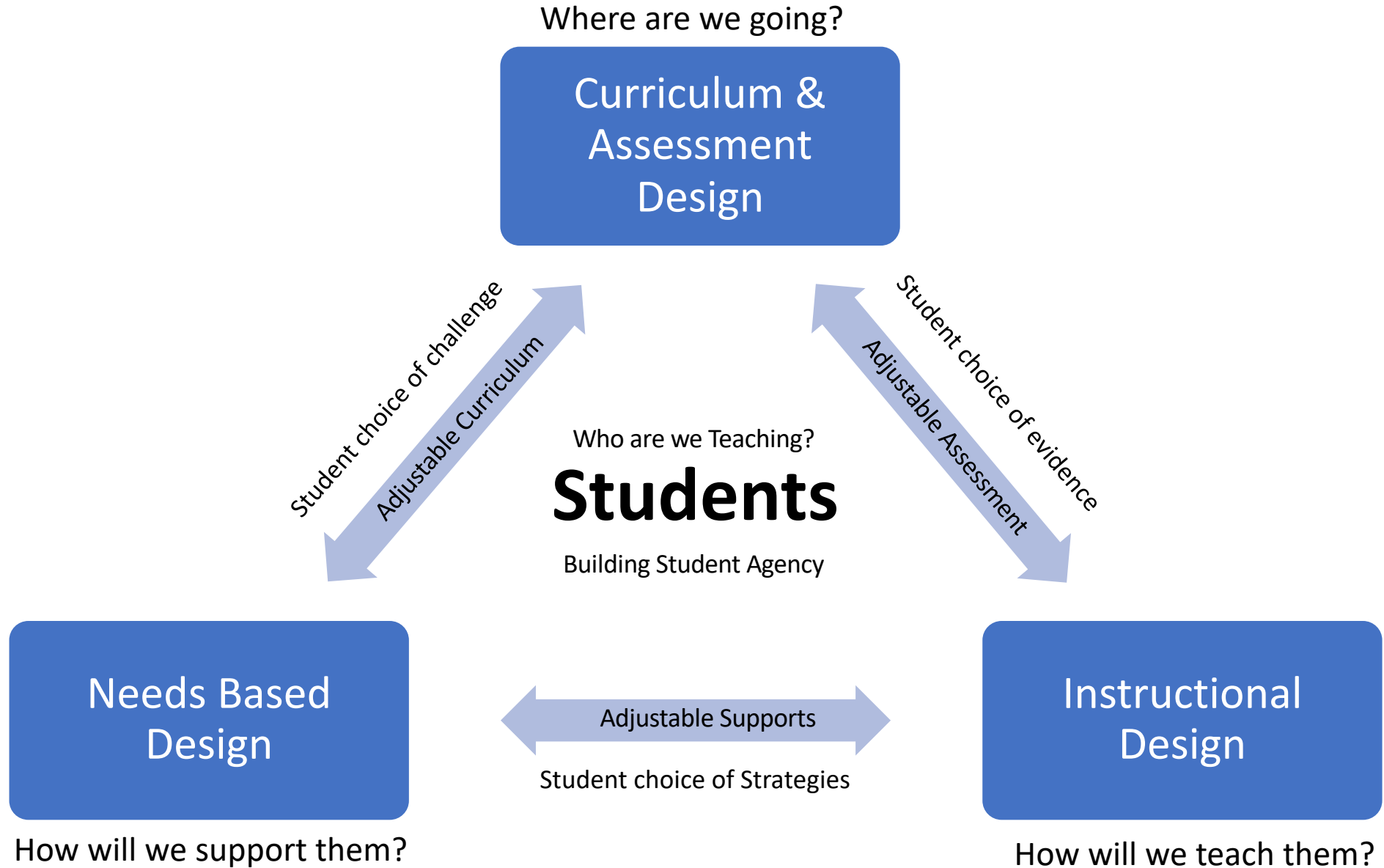


How do we include
people who are
different

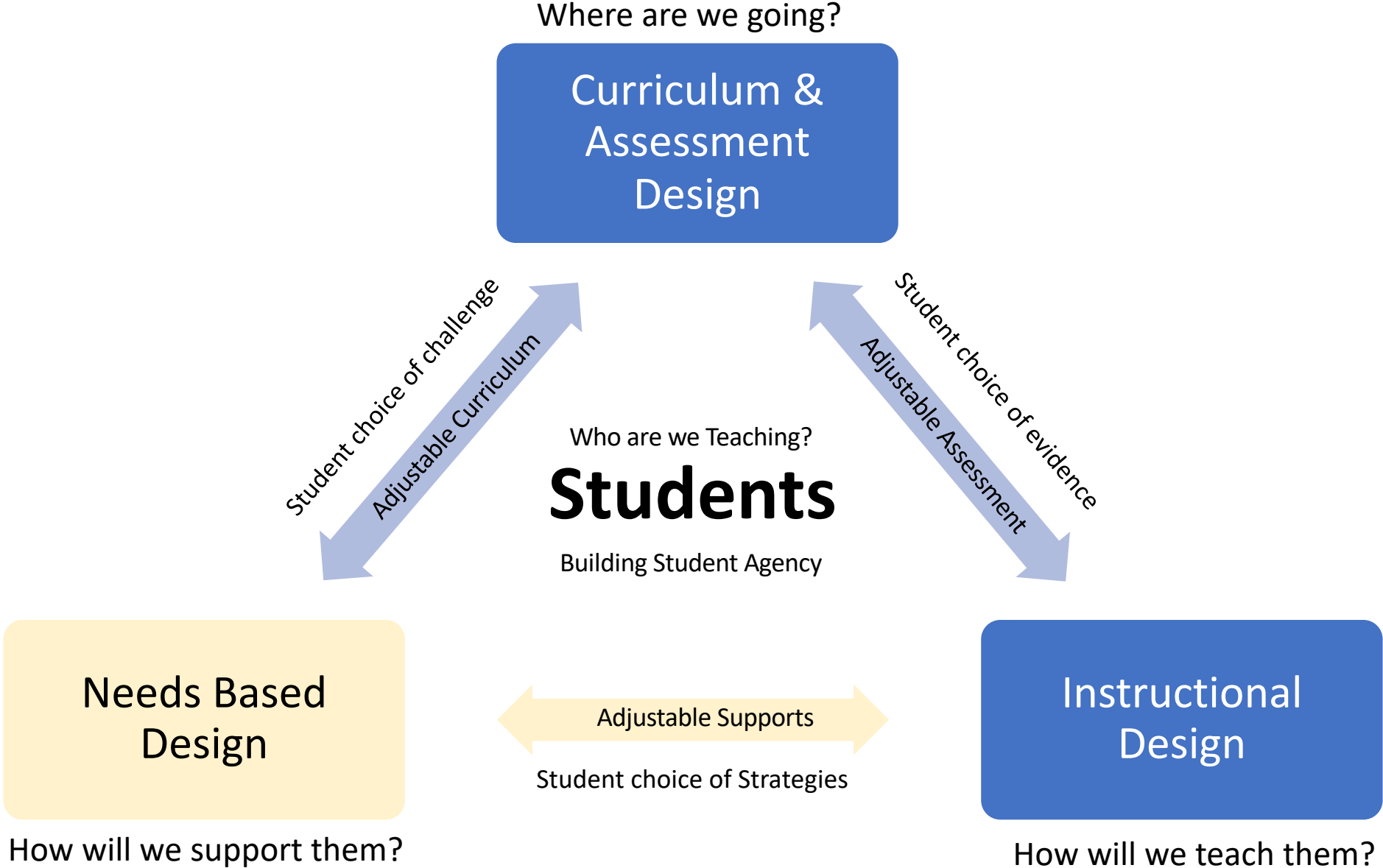


How do we teach
to diversity?

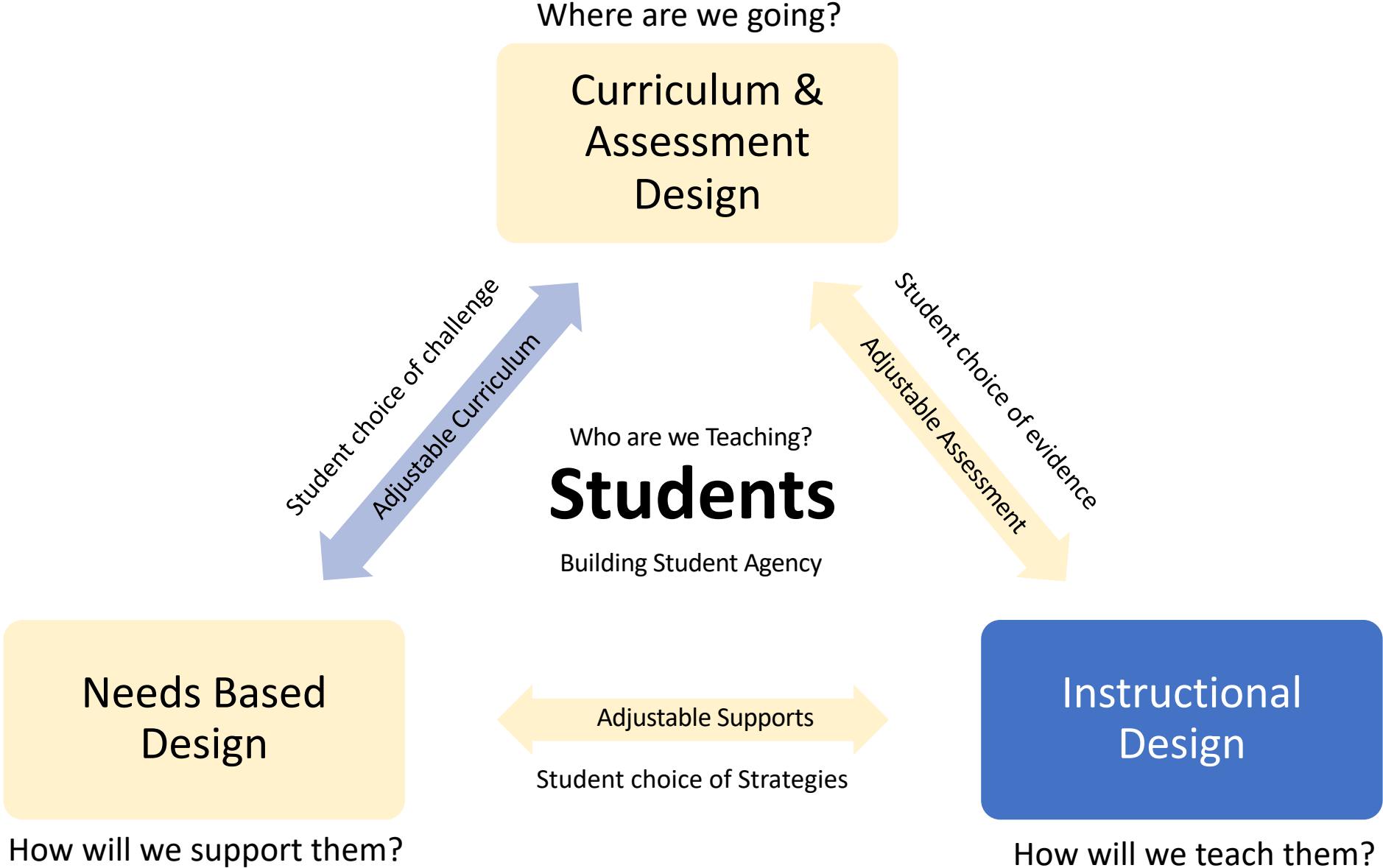
How can we change the system? Designing with Equity in Mind



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



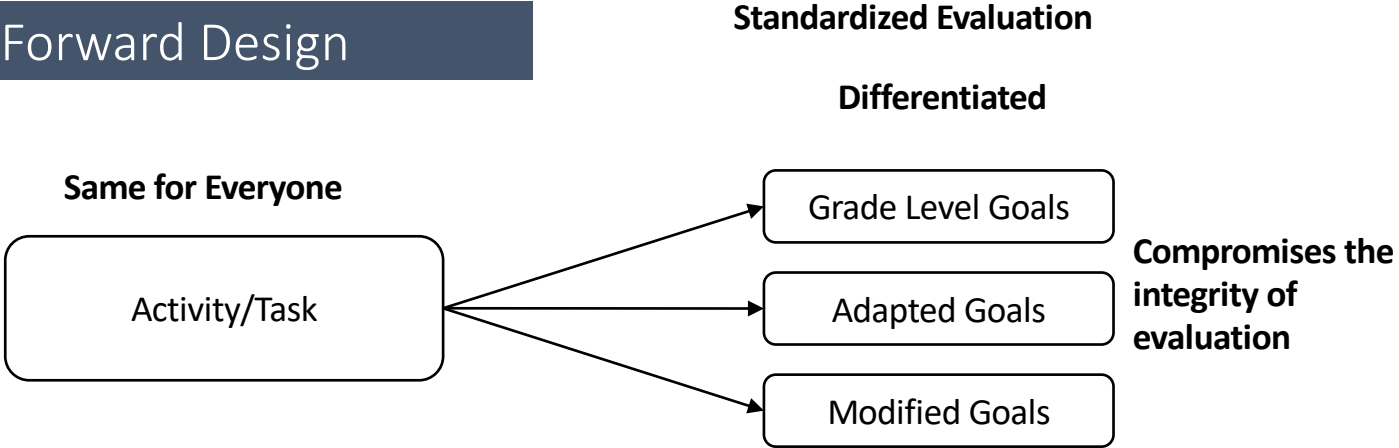
How can we change the system? Designing with Equity in Mind



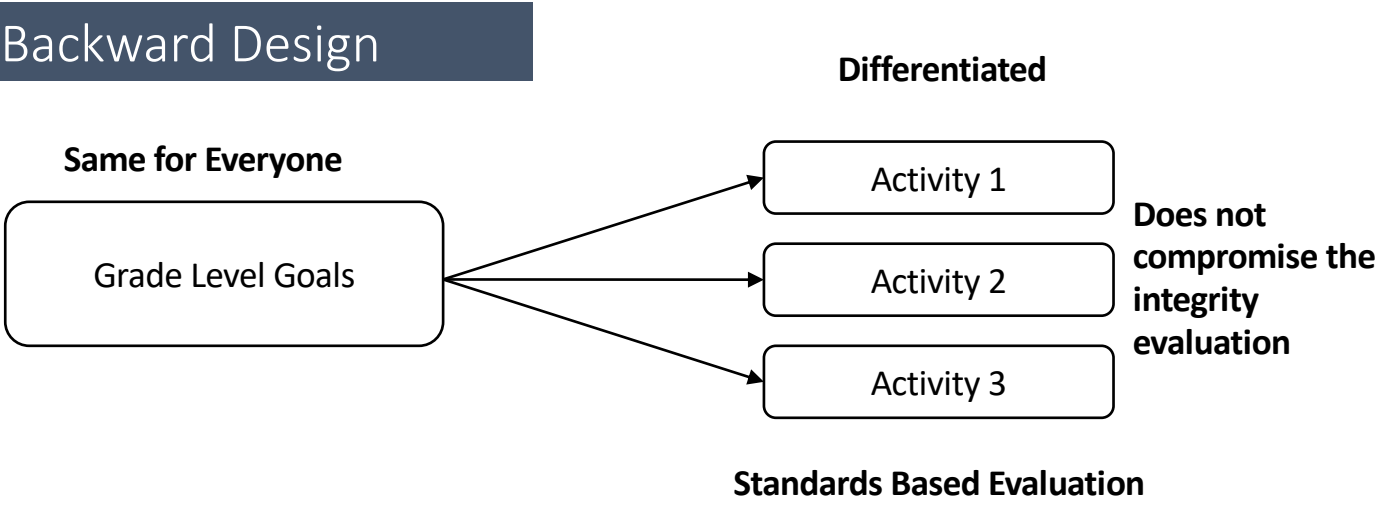
BACKWARDS DESIGN



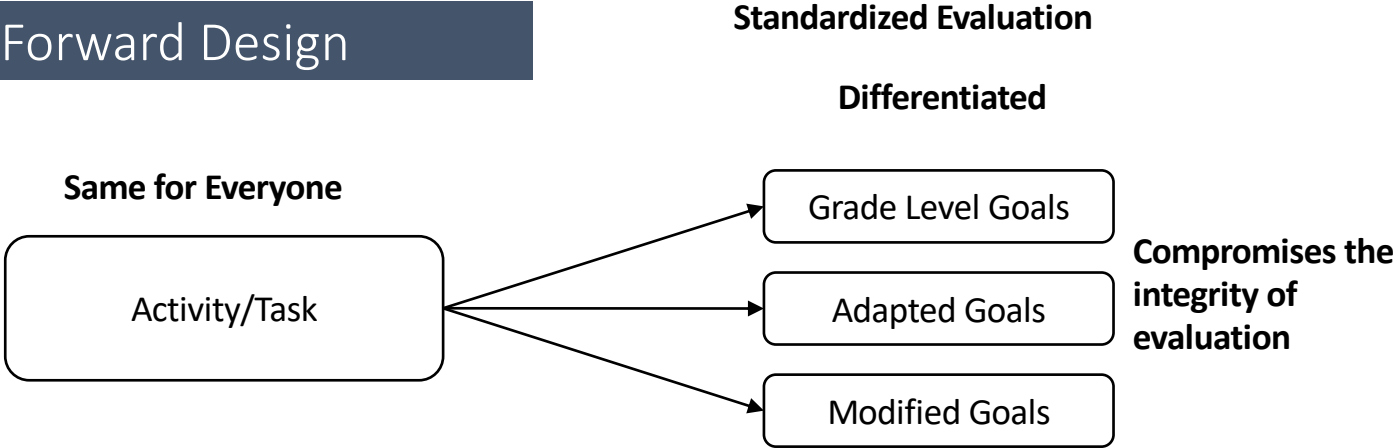
Forward Design



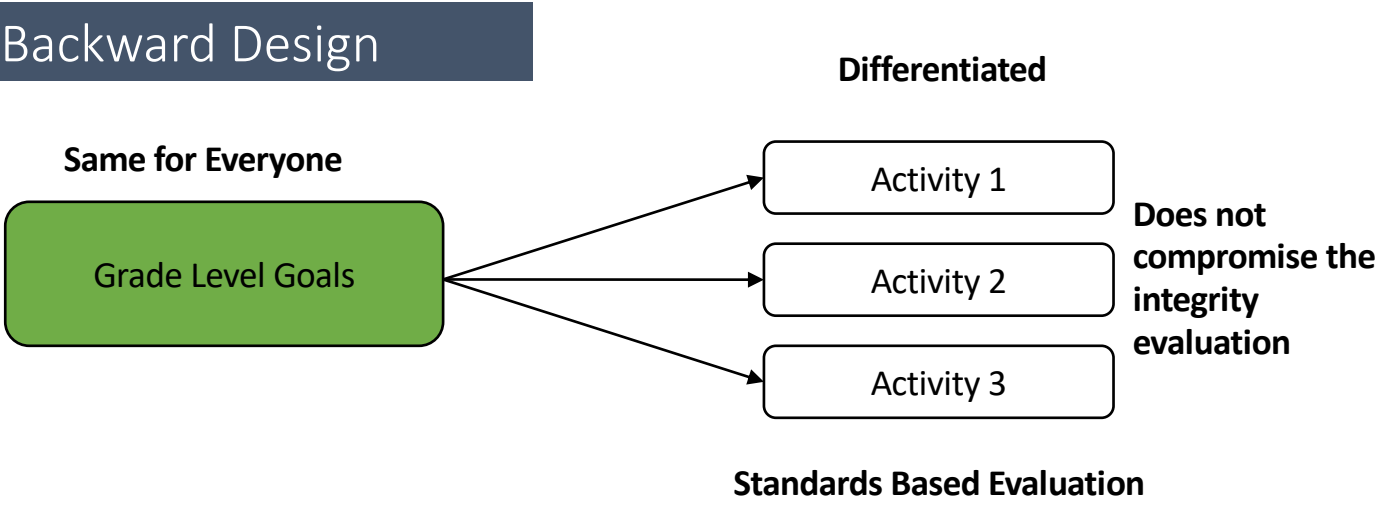
Backward Design



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?

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...

Grade:	Subject(s):	Planning Team:	
Curricular Language		Student Friendly Language	
Organizing Idea			
Our Guiding Unit/Essential 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 and use:			
Water Environment Living things	Citizens Strategies communicate	Investigate Collect data Text	

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

Learning Standards

Competency Goal

I can be personally aware and responsible by being **self determined**

Competency Goal

I can be personally aware and responsible by being **self regulated**

Summative Tasks (Self Evaluation)

New format
(3D model)

Create a 3D model that represents your understanding of being personally aware & responsible

Choice Format
(letter, comic book,
conversation)

Describe how being personally aware & responsible connects to and can help you in your own life

Backward Design Unit Planning Template: Building the Curricular Airplane

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

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

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

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:
Topic: 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 (Teacher Evaluation)
	Attitudes	Dimensions of Thinking		

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

Big Idea: 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?
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Content vocabulary to know and use: mechanical devices, structures, functions, machines, subsystems, component parts, system, force, energy, transmission, mechanical system, social contexts, environmental contexts		Skill vocabulary to know and use: initiate, plan, variables, investigating, researching, data, qualitative, quantitative	
Unit Goals: Curricular Language		Student Friendly Language	
STS Outcomes	Illustrate the development of science and technology by <u>describing, comparing, and interpreting</u> mechanical devices that have been improved over time	STS Outcomes	I know how science and technology has impacted the development of mechanical devices I know how mechanical devices have improved over time
	Analyze machines by describing the structures and functions of the overall system, the subsystems and the component parts		I know the structures and functions of different machines I know how subsystems and component parts work together in an overall system
	Investigate and describe the transmission of force and energy between parts of a mechanical system		I know how the force and energy moves (transmission) between the different 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 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	Targeted Skill Outcomes	I can initiate and plan by: <ul style="list-style-type: none"> asking questions about how things (variables) are related to each other investigating and researching into questions I ask
	Analyzing and Interpreting: Analyze qualitative and quantitative data , and develop and assess possible explanation		I can analyze and interpret by: <ul style="list-style-type: none"> using my senses to understand and explain data (qualitative) using amounts, numbers and values to understand and explain data (quantitative)
Targeted Attitudes	Interest in Science: Show interest in science-related questions and issues, and pursue personal interests and career possibilities within science-related fields	Targeted Attitudes	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)

<p>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?</p>	<p>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?</p>
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Vocabulary to know and use:	
Unit Goals: Curricular Language	Student Friendly Language
<p>STS Investigate and describe ways that human understanding of Earth and space has depended on technological development by:</p> <p>Identify problems in developing technologies for space exploration, describe technologies developed for life in space, and explain the scientific principles involved</p> <p>Describe and interpret the science of optical and radio telescopes, space probes and remote sensing technologies</p> <p>Identify issues and opportunities arising from the application of space technology, identify alternatives involved, and analyze implications</p>	<p>STS I can explore and describe how humans use and need technology to understand the Earth the space</p> <p>I can understand and describe technologies that have been developed for exploring space and for life in space</p> <p>I can find problems in the technologies that have been and are being developed</p> <p>I can explain the science of some specific technologies</p> <p>I can find problems and see potential in studying space and space technology</p>
<p>Skills Outcomes Initiating and Planning: Ask questions about the relationships between and among observable variables, and plan investigations to address those questions</p> <p>Communication and Teamwork: Work collaboratively on problems; and use appropriate language and formats to communicate ideas, procedures, and results</p>	<p>Skills Outcomes I can initiate and plan by</p> <ul style="list-style-type: none"> asking questions investigating and researching to find answers to those questions <p>I can communicate and work as a team by:</p> <ul style="list-style-type: none"> solving problems and communicating ideas
<p>Attitude Outcomes Scientific Inquiry: Seek and apply evidence when evaluating alternative approaches to investigations, problems, and issues (<i>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</i>)</p> <p>Stewardship: Demonstrate sensitivity and responsibility in pursuing a balance between the needs of humans and a sustainable environment (<i>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</i>)</p> <p>Collaboration: Work collaboratively in carrying out investigations and in generating and evaluating ideas (<i>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>)</p>	<p>Attitude Outcomes I can be a scientific researcher by:</p> <ul style="list-style-type: none"> finding evidence to answer questions and solving problems <p>I can show stewardship by:</p> <ul style="list-style-type: none"> Finding out about and understanding ideas from different perspectives, including stakeholders, that is connected to a problem or event <p>I can collaborate by:</p> <ul style="list-style-type: none"> working together to build ideas and solve problems
<p>Competencies Critical Thinking</p> <ul style="list-style-type: none"> questioning and analyzing evidence, assertions, or assumptions demonstrating intellectual integrity, fairness, and open-mindedness 	<p>Competencies I can be a critical thinker by:</p> <ul style="list-style-type: none"> questioning what I know by understanding evidence from multiple perspectives being open minded to learn new things and to change my thinking and my ideas based on what I am learning (<i>growth mindset</i>)

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?
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Vocabulary to know and use:			
Unit Goals: Curricular Language		Student Friendly Language	
Values &	20-4.2a appreciate that nations and states pursue the national interest	Values &	I understand why nations try and build national interest
	20-4.2b appreciate multiple perspectives related to the pursuit of the national interest		I understand why it is important to include different perspectives when building national interest
Knowledge & Understanding	20-4.2c explore a range of expressions of national interest	Knowledge & Understanding	I learn about different ways that national interest is shown or expressed
	20-4.2d explore the relationship between nationalism and the pursuit of the national interest		I can learn about how nationalism and building national interest connects to each other
	20-4.2e examine similarities and differences between nationalism and ultranationalism		I can look at how nationalism and ultranationalism are the same and different
	20-4.2f identify the effects of nationalism and ultranationalism during times of conflict		I can tell the effects of nationalism and ultranationalism during conflict
	20-4.2g examine ultranationalism as a cause of genocide		I can look at how ultranationalism can lead to genocide
	20-4.2h examine the relationship between nationalism and national self-determination		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 Goals: Curricular Language	Student Friendly Language	
Knowledge	20–A1.1k Students will: explain, in general terms, the one-way flow of energy through the biosphere and how stored energy in the biosphere , as a system, is eventually “lost” as heat	Knowledge I know how energy is used in a biosphere (stored, transferred, lost)
	20–A1.2k 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, <u>biomass</u> 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	Specific Outcomes for Skills I can initiate and plan by: <ul style="list-style-type: none"> • by asking questions about what I observe in my environment • by making predicting based on what I observe
	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	I can investigate and record my observations by: <ul style="list-style-type: none"> • using different tools and techniques to gather data • complete an experiment
	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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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 graph ?	
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: <ul style="list-style-type: none"> • 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 my Learning			I Need Support	I Need Challenge
	Activities/ tasks	concrete	pictorial	abstract		
<ul style="list-style-type: none">I know what quadratic functions areI know that quadratic functions have a vertex, intercepts, and an axis of symmetryI know that quadratic functions are defined by their domain and range						
<ul style="list-style-type: none">I can solve problems that use quadratic equations						

Grade: 11	Subject Area(s): Literary Analysis and Writing 11 – Unit: Relationships - Families, Communities, and the Land p. 287	Planning Team: Kelley
Big Idea: The exploration of text deepens understanding of one’s identity, others, and the world.		Unit Guiding Question(s): How do our relationships with our family, friends, and community strengthen us?
Unit Goals		Activities to capture evidence of this goal
Content Goal	I know reading strategies.	Lesson 3, Literature Circles, p. 289; BLM 3 Reader Response Planning and Assessment p. 298
Content Goal	I know writing processes.	Lesson 5, Character Write, p. 291, BLM 8; Lesson 8, Writing about relationships, RAFT Templates, p. 296; Revise for summative; Lesson 7, Interview, p. 292
Curricular Competency Goal	I can use writing and design processes to plan, develop, and create engaging and meaningful texts for a variety of purposes and audiences.	Formative and summative, BLM 7 Making Connections with questions, Parts 1-4. Part 4 is summative; Lesson 7, Interview, p. 292; Unit Summative BLM Body Biography, p. 304 or BLM Concept Map, p. 305
Curricular Competency Goal	I can transform ideas and information to create original texts, using various genres, forms, structures, and styles	Lesson 5, Character Write, p. 291 BLM 8, p 307, formative; Lesson 7, Interview, p. 292; Making Connections with questions, Parts 1-4. Part 4 is summative
Curricular Competency Goal	I can demonstrate awareness of how First Peoples’ languages and text reflect First Peoples’ cultures, knowledge, histories, and worldviews.	Lessons 3, 4, Novel Study, Literature Circles, p. 289-, BLM Reader Response Planning and Assessment, p. 298-; Reader Response Questions, p. 300 -
Curricular Competency Goal	I can use the conventions of First Peoples and other Canadian spelling, syntax, and diction proficiently, and as appropriate to context.	Using feedback on drafts to edit. Summative assessments: Lesson 5, Character Write; Making connects with guiding questions, Part 4; Lesson 7, Interview, final draft; Unit summative, Body Biography, or Concept Map

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)

Your Work Between Now and Next Session

- Choose an upcoming unit
- Determine/ construct the big idea
- Practice generating some open ended questions to guide learning
- Identify the goals that you want to intentionally target, teach and assess in this unit
- Translate the goals into student friendly statements using:
 - I know (content & knowledge)
 - I can (skills & processes)
 - I can be/ I am (attitudes & dimension of thinking)

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