1. Standard (underline action verbs):		
Clarifying information related to standardnote I Supporting Material sections (Idaho Science Standard)	•	
From previous classes, what knowledge and skills	s are students coming in with? How will they	
extend in later grades? DCIs across grade levels (		
Idaho Core Standards summarized Literacy / ELA		
Mathematics		
Science practices	☐ SP1: Asking Question	
Any practices that stand out with this standard OR ones you can see focusing on with an assessment	☐ SP2 Develop and Use Models ☐ SP3: Plan and Carry Out Investigations ☐ SP4: Analyze and Interpret Data	
	☐ SP5: Use Math and Computational Thinking ☐ SP6: Construct Explanations ☐ SP7: Engage in Argument from Evidence ☐ SP9: Obtain Evaluate and Communicate	
Cross cutting concepts	☐ SP8: Obtain, Evaluate and Communicate Information from a variety of sources	
Any CCC that stand out or will be focused on	☐ CC1: Patterns ☐ CC2: Cause and Effect	
Any CCC that stand out or will be focused on	☐ CC3: Scale, Proportion and Quantity ☐ CC4: Systems and System Models ☐ CC5: Energy and Matter	
	☐ CC6: Structure and Function ☐ CC7: Stability and Change	
Similar or related standards that may be taught in	ı same unit with this standard	

2. Performance Assessment
Core content objectives of standard (DCIs NGSS) Could look back at Day 1 note catcher
Skills that students will perform (action verbs of standard and review Science Practices in unpacking section) and level(s) of inquiry that can / should be used.
Student Evidence of Standardhow will students demonstrate their learning? (NGSS Evidence Statements)
Authenticityare there real life or community topics that relate to standard that can be applied or connected to the assessment?
Brainstorm PBL / Performance assessment ideas

3. Harnessing Relevancy - Essential Questions and Field Wo	3.	<b>Harnessing R</b>	Relevancy -	<b>Essential</b> (	Questions	and Field	Wor
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Remember: Some questions function to WIDEN the relevance of unit Some questions allow yo to FOCUS the instruction from a case-in-point.	u
To Consider:	

How does your essential question give students permission to take risks, join the learning, chart

the course, and personally invest in their products, the data, and their own writing?				
Of course you may use:	Who?	Some other options might be:		
	What?	Do?	Does it?	
	Why?	Is it?	Was it?	
	When?	Should you/it/hu	ımans/societies?	
	Where?	Would you/it?	Could/can?	
	How? Who can? Who should?			
<b>You might also try:</b> To what extent? Under what conditions?				
Who	is benefiting from_	? What if	?	
Is it ever acceptable to?				
What is the controversy?				
What are the negative externalities of?				
What are the unseen consequences of?				
Possible "Power" WORDS for generating INQUIRY QUESTIONS:				
Value	Benefit	Protection	Respect	
Worth	Treasure	Consequence	Depletion	
Cost	Purpose	Public	Evaluate	
Price	Principle	Community	Attach importance to	
Significance	Merit	Intent/Intentions	Unrestricted	
Goal	Open	Resolve	Free/Freedom	

Preservation

Responsibility Appropriate

Common

Tolerate

Own/Ownership

Other "powerful" words in your discipline or classroom:

Shared

Fair

Communal

Conservation

Accumulation

Judge

**Draft potential essential questions related to your class below:** 

# 3. Thinking Through Field Work Experiences:

	Field trip $\rightarrow$ field work What, why, how?
1.	When someone says "field trip" what does it make you think? What type of places do students go? What types of things do they do? For what purposes do these trips occur?
2.	Think about your personal experiences with field trips - as a learner, teacher, parent, chaperone. How do they match or differ from what you described above?
3.	When someone says "field work" what does it make you think? What type of places do scientists go? What types of things do they do? For what purposes does this work occur? Do you have field work experience? What did you do?
	How do we create field trips that are purposeful and meaningful learning experiences?
	g · · · · · · · · · · · · · · · · · · ·
-	I think about potential opportunities outside your classroom, how could you shift it to make ingful connections to engage students in data gathering and meaning-making while out in the field?
Is the	re any equipment that you've included in your kit that you could take with you in a meaningful
way?	
Brains	storm Ideas Here:

4. Instructional Sequence (using the 5E mod	e 5E model	(using the	Sequence	Instructional	4.
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Engage / Activate Prior knowledge: How will you capture student interest? What phenomena can you use to peak interest? How will you frontload your unit to access and build on prior knowledge? What information needs to be reviewed or provided that is essential for student success?
Hook or phenomena:
Frontloading (accessing or sharing prior knowledge/skills and important background information needed):
Explore / Investigate: How will students start to explore content and begin to practice skills? What activities will you do to begin to construct knowledge and practice skills associated with standard? Guided inquiry is commonly used with exploration or a more open-ended approach can be used with specific, guided explanation after exploration.
Key concepts to explore and how will students explore? What skills will students start using / practicing?
Level of inquiry:
Explain / Synthesize and Reflect: How will you allow students to begin to analyze and explain their explorations and/or phenomena they have observed? How student-centered can this be? Where will the teacher need to step in to help explain?
How will students analyze collected data?
How can students use explorations to construct key scientific concept(s)? Is teacher assistance needed?

Extend / Create and Design: How will you continue to build on student knowledge and skills? What content and skills will you continue to extend and build upon as you go deeper into your unit? How will you continue to extend knowledge and skills? What will you do to continue to allow students to practice needed skills? Inquiry may be able to move or shift to a more open-ended or student-centered form. Guided inquiry can still be used at any time in the unit.
What concepts have students learned? What concepts do students still need to learn?
How will students learn or construct these new concepts or extend previous learning?
What skills have students learned or practiced? What skills need to continue to be practiced? What new skills need to be practiced?
Evaluate / Communication: What is your end product students will produce that allows for you and the student to evaluate their progress towards achieving the standard? What formative assessments should be used along the way?
Summative assessment(s): Cumulative assessment (PBL, authentic, student-centered)
Other smaller summative assessments:
Formative assessments: What knowledge and skills should be informally assessed before students begin any summative assessment?