Virtual Looking at Student Work Protocol Sample Created by Claire Polcrack

LASW Planning & Notes Template 2019 - 2020

Always choose **PRIORITY lesson** from IPP and have standard note-taker for coach/teacher to share.

Vision of Meeting		Preparation for Meeting	
A strong LASW is the final element of a successful lesson cycle (IPP, observation feedback, LASW) that is the final check of the success of a lesson and to determine what re-teaches are necessary for scholar mastery. LASW meetings should be focused on the prioritized lessons of a unit and focusing on		Teacher: Completed IPP and be prepa Graded ET and have copies a o Provides copies of Creates new LASW document	ared to discuss lesson available for LASW Meeting ETs for SWDs prior to meeting nt for meeting
increasing teacher analysis and planning of re-teaches. The students selected for LASW should change slightly each quarter depending on the focus of the focus/EOY Goal.		 Co-teacher Reviewed data & ET samples ahead of meeting Review IPP from teacher for LASW lesson 	
Priority Areas	Indicators o	of Success	Most Common Pitfalls
 Heavy Lifting – Teachers are doing the thinking/practicing/revising, not leader. Practice – Teacher should have time to plan re-teach on own & rehearse (if time allows). Encoding Learning – Teachers should be pushed to summarize key take-aways and transferability. 	 Prepared own ana Strong L away mo strong u Action S appears 	d Analysis – Coach has prepared alysis ahead of meeting. Jse of Time – Teacher walks otivated and feeling meeting was se of their time. tep Transfers – Practiced skill in all future LASW meetings.	 Timing - Spending too long on steps 1 & 2 (framing & analysis) Pre-work - Lack of clarity of pre-work and using that to lead more focused teacher analysis of gaps. Low Quality Work Time – Not ensuring clarity of misconception, KP, and stimulus prior to work time.

I) Unpacking Standard & Assessment Item (< 3 min)

Direction to Teacher: Complete at beginning of meeting with your co-teacher.

Framing what scholars need to know/do		
What do scholars need to know (content/vocabulary/ideas) to show mastery of the standard ? (<i>MUST</i> address conceptual focus and goal of assessment.) 1 min	 KNOW: Students need to know the parts of a polynomial Students need to understand that solutions of a polynomial give a true statement Students need to know when an expression/equation describes a polynomial, line or exponential 	
What do scholars need to do (work/graphing/calculations) to show mastery of this question? <i>1 min</i>	 SHOW: Students need to be able to classify polynomials by key features and parts. Students need to understand how to substitute properly and understand that keeping the parenthesis while substituting will help with proper steps. Students understand the standard forms of lines, exponents and polynomials. 	
What did we name as the CFS for exemplary work? (What should we be looking for when scoring the ETs?) 1 min	CFS: 1.	

II) ANALYZE FOCUS STUDENT WORK, NAMING ERRORS (< 5 min)

Direction to Teacher: Take 3-5 minutes to look through the scholar samples for each group, noting the trends you see.

Typical Perf.	Today's Perf.	Scholar Name	Observations of Work (name specific errors)	
High	10/10	Sam. L.	 organized, labeled, color coordinated substitution with parenthesis answer boxed and labeled as solution annotations correct use of power when substituted 	
High	8/10	Alv. G.	 organized, labeled substitution with parenthesis answers boxed and labeled as solution/no solution no annotations correct use of power when substituted power is used as multiplication (power * base) 	
Medium	5/10	Alan L.	 organized, labeled substitution with parenthesis in a but not in b answers boxed and labeled as solution/no solution no annotations 	

			correct use of power
Medium	8/10	Durena G.	 organized, labeled substitution with parenthesis but not properly answer boxed and labeled as only one satisfies annotations correct power use multiplying bases first before applying power didn't include Leading coefficient (reading directions)
Medium	7/10	Jesus S.	 organized, labeled lack of parenthesis when substituting
Low			
Low			

Full Vision of Excellence (2 points)	Partially Met (1 point)	Not Met (0 points)
students	students	students

(Pre-sort ahead of meeting into these 3 groups. Then do 2nd deep dive into "Partially Met" group. Identify conceptual misunderstanding for meeting.)

III) NAME ERRORS & MISCONCEPTIONS (< 5 min)

Naming Errors & Highest Leverage Conceptual Gap			
What errors do you notice? (Be as specific & precise as you can.) <i>3 min</i>	 Multiplying the base and the power together, when evaluating (2)³ = 6 instead of 2(2)(2) Students who did not use parenthesis when evaluating had more errors when solving All knew to substitute in(-2)² = -4 vs(-2)² = 4 		
	 Exponent properties exponent FIRST then multiplyinga² is the same as -1(a)² Exponent = base times itself the number of times. Use this to evaluate 		
Which error is the highest leverage to address? Why? 1 min	Other errors will come up with solving future lessons (annotations, etc.). If students do not understand exponent rules, they will come up in every lesson and therefore we must understand.		
Using the language of the standard, what is the conceptual misunderstanding that is causing the error? <i>1 min</i>	 The key student error is properly applying order of operations with exponents and the <u>two</u> biggest conceptual misunderstandings are: 1) Use of exponent to evaluate an polynomial expression 2) Simplifying exponential expressions of the form -a² 		

IV) PLAN THE RE-TEACH (10-15 min)

Choose the Response to Error Option (< 1 min)			
Option	When to Use	Description	Outcomes
MODEL / THINK ALOUD (Should be rarely used)	<20% mastery. Almost no scholars have the correct answer.	Create a clear model with aligned CFS that show thinking behind each step by breaking down the process further.	 Key Points (How & What) Scripted Model + CFUs (Model) <u>OR</u>
CHART THE ERROR	20-80% mastery. Some scholars are struggling to reach mastery.	Focusing scholars on the common error/exemplar analysis, naming KP & CFS then giving rest of period to practice, apply, and re-assess.	 Exemplar/Non-Exemplar (Chart the Error) <u>OR</u> Close/Exemplar (Chart for Sophietication)
CHART FOR SOPHISTICATIO N	80-100% mastery. Most scholars have mastered the aim.	Use scholar work to compare a more efficient strategy/process/understanding or highlight more sophisticated vocabulary / annotations / analysis to push precision and deepen understanding.	 3 BPQs for Discussion Practice Problem(s) Re-assessment ET Re-Assessment date

Planning Template for Heavy Lifting Loop (5 min)

Shared document to complete planning (may co-plan or work independently depending on teacher skill). <u>CFS for Re-Teach Plan</u>

- 1. Clear Exemplar and Non-Exemplar
- 2. Broad Question (Agree/Disagree?)
- 3. Funneled BPQs
- 4. Specific Prompt that stamps error

Cla •	rity of Misconception What is the precise	The key student error is properly applying order of operations with exponents and the <u>two</u> biggest conceptual misunderstandings are:
	misunderstanding? (In scholar-friendly language)	 Use of exponent to evaluate an polynomial expression Simplifying exponential expressions of the form -a²
•	Ensure practice hones in on that misconception.	
Ke •	y Point What key point should students understand and do as a result of the re-teach that clarifies the misunderstanding and/or error? Ensure addressed both conceptual/procedural misunderstandings	A student is attempting to evaluate $f(x) = -x^2 - 6x - 7$, when x = -2. Which of the following are equivalent? Select <u>all</u> that apply. I. $-(-2)^2 - 6(-2) - 7$ II. $-1(-2)(-2) - 6(-2) - 7$ III. $2^2 + 12 - 7$ IV. $-4 + 12 - 7$ V. 1
		 VI. 9 Students Should Identify: i & iv & v - How to rewrite and evaluate polynomial of -a² form. ii & iii - What does an exponent mean and what order do I apply
Sti ●	mulus What error analysis	When evaluating polynomials, I have to evaluate the exponent $(a^2 = a(a))$ before applying any multiplication of the coefficient $(-a^2 = -1(a)(a))$
	problem, CFS or other representation will be used to elicit the key point ?	 > make sure to include parenthesis when evaluating to ensure accurate simplification The power of the exponent tells me how many times I multiply the base. BPQ: -x^3 for x = -3, what would the answer be and why?
Dis	cussion Prompts	Students complete this problem as the do now.
•	going to ask students to engage in the stimulus, name the misconception, and land the key point? Include any BPQs needed.	 Thumbs up/down. Show-call student work that chose each answer & have them explain why. Revote & move-on.
		 Anticipated Misconceptions - ii or iii → Students mixing up order of operations. BPQ: If i is correct, how would we rewrite this to choose the right answer for ii or iii? (We need to square the base of -2. The coefficient stays negative in front.) BPQ: Why is ii correct? (Because the power does NOT apply to the coefficient of -1 in front of the parenthesis. Only x = -2 is the base of the exponent.)
•	Use 100% move to ensure ALL scholars understand the key point.	

Bonus: If time allows, rehearse the trickiest part of the re-teach.

V) STAMP ACTION STEPS (<2 min)

Ensure Re-Teach Happens & Close the Loop

Did we complete all outcomes required for the re-teach?	 Key Points (How & What) Scripted Model + CFUs (Model) <u>OR</u> Exemplar/Non-Exemplar (Chart the Error) <u>OR</u> Close/Exemplar (Chart for Sophistication) 3 BPQs for Discussion Re-Assessment ET Re-Assessment date
What additional materials do you need to create/gather?	
When will this re-teach happen (check your Curriculum Map)? What is our goal ?	Monday, February 24th during Math Intervention
Did you share this document with Walker and your coach?	