

LbyM Professional Learning Event Outline Guide

2023.03.04

This outline guide is intended to support the process of planning and facilitating LbyM teacher professional learning (PL) events. WestEd developed this outline guide after SSU staff used the Professional Learning Event Guide [document](#) (google drive link). This outline guide is to support SSU staff coordinate responsibilities and provide an overview for the upcoming PL event.

1. Agenda Outline

March 4th, 2023	
Start of Day	
9:00-9:30	Welcome – Lynn & Laura
9:30-9:45	Summer Travel - Lena with SPECIAL GUEST STAR JENNIFER KROH!!!!
9:45-11:15	Lesson 3.6 Temperature Calibration - Laura & Lynn
11:15 - 11:30	Break
11:30 - 12:30	Lesson Practice - Teachers
12:30 - 1:15	Lunch Break
1:15 - 2:00	Lesson Practice Presentations - Teachers
2:00 - 2:45	College Readiness at Your School - Teachers
2:45 - 3:00	Closing - All
End of Day	

Note: Feel free to add or remove rows as needed for the PL event.

2. Session Activity Descriptions

Time	Activity Name	Description
9:00-9:30	Welcome	Hedgehogs Ice Breaker, Jamboard, Include 5 min debugging activity: unit 2 pictures and bad code, one per teacher or one each. 2023.03.04_LbyM PLE Guide
9:30-9:45	Summer Travel	Summer Institute planning. Travel for SSU employees has changed. Q&A 2023.03.04_LbyM PLE Guide
9:45-11:15	Lesson 3.6 Temperature Calibration	Laura helps teachers break into groups and go through the lesson on their own in preparation for teaching it in their classroom. Staff support learning. Ending discussion will include: variability in temperature sensors, what types of problems students may end up having with the sensors, and sensors in general. 2023.03.04_LbyM PLE Guide
11:30 - 12:30	Lesson Practice	Teachers decide which lessons they want to review and if they want to review with others or not. Teachers are provided the support they need to go through the lessons they want to revisit. 2023.03.04_LbyM PLE Guide
1:15 - 2:00	Lesson Practice Presentations	Teachers present on one or two steps, challenges from Water & Soil, or what they did if they made up their own experiment. Give teachers a rubric. 2023.03.04_LbyM PLE Guide
2:00 - 2:45	College Readiness at Your School	Teachers grapple with how to present the college readiness session in pairs. Laura chooses the ones to share out that she thinks are best and answers questions so all teachers have a path forward to doing this. Lesson plan template after criteria for success (rubric of sorts). 2023.03.04_LbyM PLE Guide

2:45 - 3:00	Closing	Closing Jamboard and request for other meetings prior to Summer Institute, for field trips, next LbyM proposal...etc. 2023.03.04_LbyM PLE Guide
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3. Session Goals

Goal Category	Description
Professional Learning Goals (may include goals for LbyM)	<ul style="list-style-type: none">● Teachers know what next steps to do to get travel setup to the Summer Institute (watch for Lena's emails)● Teachers report that they feel a sense of community with their LbyM peer teachers.● Teachers are aware that travel reimbursement processes have changed
Teacher Learning Goals	<ul style="list-style-type: none">● Teachers successfully calibrate 3 temperatures sensors● Teachers can recite the Water & Soil lesson learning objectives
Teacher Practice Goals	<ul style="list-style-type: none">● Teachers use troubleshooting and debugging techniques in their classroom● Teachers share best practices for teaching calibration in the classroom● Teachers know how to implement the A-G College requirements information in the classroom● Teachers feel confident they can teach the lessons in Water & Soil
Student Learning Goals (if needed)	<ul style="list-style-type: none">● Students calibrate temperature sensors● Students use the LbyM equipment to implement scientific practices in the classroom related to lab experiments.

Note: The different goal categories are helpful to keep track internally to see what goals are addressed over time. For the PL event, the facilitators can decide which goals above they want to present for participants (since not all need to be presented).

Brainstorming

Goals

- Practitioner: Teachers know how to implement the A-G College requirements information in the classroom
- Programmatic: Teachers know what next steps to do to get travel setup to the Summer Institute (watch for Lena's emails)
- Programmatic: Teachers are aware that travel reimbursement processes have changed
 - Summer Travel Info (those not coming: meet and get equipment ready for Water & Soil)
 - Patty and Arnold are not coming to the Summer
 - LbyM Proposal (\$15-20 million over 5 years) is DUE probably the same week as our training in the Summer... this is a problem. Or is it?
- Practitioner: Teachers use troubleshooting and debugging techniques in their classroom
 - Reminder of debugging tips and Greg and Laura's session last summer, so they use these techniques in their classroom
- Learner: Teachers successfully calibrate 3 temperatures sensors
 - Calibrate sensors: what they need
- Practitioner: Teachers share best practices for teaching calibration in the classroom
- Learner: Teachers know what learning objectives are in lessons in Water & Soil
- Practitioner: Teachers to feel confident they can teach the lessons in Water & Soil
 - Pick a lesson to go through/start

Tasks

- Reminder to set up meeting with Crystal about field trip
- Check in with Amanda (Round Valley) about ideas (Laura)
- MOUs for Lena...

Follow up (Study)

Reflection on the PLE (what worked, what could be improved)

What worked

- Good to have teachers doing some of the work
- Hardware and software worked
- The Docs are really useful (LbyM App Docs)
- Logistics and organization of Google Folders is working well
- They were able to go through 3.6 and record their data to Jamboard
 - We were able to troubleshoot Patty's sensors

What could be improved

- Instructions for adding the drivers to computers
 - Modify instructions to for Mac/Windows with screenshots

Tasks coming from PLEs

- Coordinate speakers with RUP
 - Erik?
 - Walter?
 - Others?
- Laura will send Derek an email about speakers
- Laura will send Arnold an email about field trip
- Lena will add magnifying glasses to the list of classroom set of materials
- Laura will create a meeting with Lena about getting materials from schools
- Laura will send a request to Aurore to about leashed water-proof temp sensor
- Laura and Lynn will meet about curriculum update on Jamboard:
https://jamboard.google.com/d/1g1ZCzSzzUV0FtP_h2LmsjwTfP7mZVDPdP4jZNYF8RBQ/viewer?f=8
- Laura sends email to Aurore about Unit 2, cc-ing
Lynnhttps://jamboard.google.com/d/1g1ZCzSzzUV0FtP_h2LmsjwTfP7mZVDPdP4jZNYF8RBQ/viewer?f=9

