

LAB-aids®

Summer Academy 2022

Breckenridge, CO | June 27-July 1

SAMPLE AGENDA from 2022

Hotel: Marriott Residence Inn, 600 South Ridge St., Breckenridge, CO 80424; Tel 970-453-1181

Summer Academy Staff

- Dr Mark Koker, Lab-Aids Institute, San Leandro, CA
- Lisa Kelp, Lab-Aids Institute, South Lyon, MI
- Stephanie Wallace, Lab-Aids Sales Operations Manager, Shrewsbury, MA
- Dick Duquin, Lab-Aids Senior Consultant, Kenmore, NY
- Hethyr Tregerman, Lab-Aids Product Manager, Littleton CO
- Chris Keller, Lab-Aids Technology Manager, Denver, CO
- Dr Lisa Martin Hansen, Chair, Science Education Group, CSU-Long Beach, Long Beach, CA
- Dr Wendy Jackson, SEPUP Developer, Chicago, IL
- Manisha Hariani, SEPUP Developer, Berkeley, CA
- Maia Binding, SEPUP Developer, Berkeley, CA
- Misty Richmond, Teacher, Chicago Public Schools
- Lisa Yemma, Lab-Aids Consultant, Whiteville, NC

Monday, June 27

12:30p-4:30p **SEPUP 101 session**, *Lisa Kelp* (prior registration required)

Please meet in the hotel lobby at 11:30am to head to lunch prior to the afternoon workshop. A separate email has been sent to those who are registered.

Travel to Colorado; hotel check in time is 3 pm.

6:00 Dinner, Breckenridge Brew Pub, Meet in hotel lobby at 5:45p

600 South Main Street, Breckenridge (about a 1 min walk from the hotel)

Tuesday, June 28

7:00 Continental Breakfast, hotel, on your own

8:00 Welcome and introductions, *Mark*

8:45 Meeting overview, *Mark*

9:00 SEPUP Top Ten, *Mark*

What's most important about SEPUP? Is it the use of issues? The support for literacy and assessment? The cute little trays and bottles? NGSS alignment and support? This activity will help put it all in perspective. hashtag: #SEPUP

9:45 Goals for the Week and Notebook setup, *Dick*

10:20 Break

- 10:30 Using Issues in SEPUP, *Wendy*
Over the years, SEPUP has become known for its use of societal and personal issues to drive the science curriculum. In this session, we will take a closer look at an exemplar activity and unit to focus on the associated environmental, personal, and societal issues.
- 12:00 Lunch
- 1:00 Using Driving Question Boards to Make Phenomena Meaningful and Connected, *Stephanie*
Pro-tips and full exemplary DQB walkthrough. Several DQBs will be showcased on different platforms (In-person, Jamboard, Padlet, etc).
- 2:00 Literacy in SEPUP, *Dick*
SEPUP develops and integrates strategies to support student reading comprehension, writing, oral language, and synthesizing information. This session will discuss the history and evolution of literacy in SEPUP, and how we can use this knowledge to improve learning in the SEPUP.
- 3:30 SEPUP support for Engineering and the NGSS, *Stephanie*
The NGSS materials include additional opportunities for students to engage with the Science and Engineering Practices, particularly the ETS-1 performance expectations. We will work through selected activities from an NGSS physical science unit. This is a DESIGN activity type.
- 5:30 Closing, *Mark*
- 6:30 Dinner, Fatty's Pizzeria and Italian, 106 South Ridge Street, Breckenridge (about 15 min walk from hotel) Meet in the lobby at 6:00p.

Wednesday, June 29

- 7:00 Continental Breakfast, hotel, on your own
- 8:00 Literacy in SEPUP, *Dick*
In this second session on literacy, we will see how using the integrated literacy strategies can improve student learning, using examples from the Chemical Reactions unit.
- 9:00 Assessment in SEPUP, *Dick and Wendy*
The assessment system in SEPUP, originally developed with NSF funding in 1995-98, has received national interest and acclaim. This session will present a closer look at the SEPUP assessment system, beginning with background on the original system, and scoring samples of student work led by Dick. It will conclude with a presentation by Wendy on changes in the assessment approach needed for the NGSS edition.
- 11:30 Sensemaking and Storylines in SEPUP, *Wendy*
Topics covered include: Why we need storylines (to help us make sense of something); How storylines are developed in SEPUP to make sense of a set of phenomena (which are all linked by an issue); How sensemaking builds within a learning sequence and across learning sequences
- 12:30 Box Lunch
- 1:00 Mid-conference break

5:30 Dinner, Mi Casa, meet in Lobby at 5:15p

Thursday, June 30

7:00 Continental Breakfast, hotel, on your own

8:00 SEPUP and the Nature of Science, *Lisa M*
The NGSS provide ancillary support for the nature of science, seen at the bottom of selected foundation boxes and appendices. This session will unpack this topic and detail SEPUP support for this critical science program outcome.

10:00 Diverse Learners, *Misty*
During this collaborative work session you'll be able share and learn teacher tips for supporting diverse learners within your science classroom. This session will highlight one of SEPUP's drawing model activities within the Issues and Earth Science Solar System and Beyond unit.

11:00 Round Table, *Dick*
Tips for teachers! What's the best idea you want to share? Please bring ideas that you have used in your classroom to implement the program. Ideas could include projects, materials or classroom management tricks, differentiated instruction ideas, etc.

12:00 Lunch

Elective Programs

The afternoon will be divided into 50-minute segments (with ten-minute passing times) designed to allow participants to explore areas of interest to them in breakout sessions held in different locations. We will all meet back in the main meeting room at 5:00 pm.

	1-1:50p	2-2:50p	3-3:50p	4-4:50p
Room 1	High School SEPUP, Hethyr	Portal help, Chris	Tracking Phenomena throughout a SEPUP unit, Lisa Martin	Supporting Teachers New to SEPUP, Hethyr
Room 2	Attitudes at Altitude, Dick	Tracking Student Learning, Misty	CBAM and Working with Adult Learners - Mark	STEM, after-school, summer school idea Tinkering, Stephanie
Room 3	Social Media for Teachers 101, Stephanie	Classroom Management, Lisa Kelp	Classroom Management, Lisa Kelp	Portal help, Chris
Zoom	NGSS-Focused Summative Classroom Assessments of Three-Dimensional Learning, Maia	NGSS-Focused Summative Classroom Assessments of Three-Dimensional Learning, Maia	Inclusive Instruction: Supporting Diverse Learners, Manisha	UbD in SEPUP Assessment, Lisa Yemma

Elective Descriptions

Adult learners and learning styles, Mark

What are the differences between adult learners and children? What is your preferred learning style? How can this knowledge help you as a workshop leader? This session will also include an overview of the Concerns-Based Adoption Model (CBAM) work, from UT- Austin.

Attitudes at Altitude, Dick

Ideas on making participants' attitudes work for you in professional development workshops and in your classroom.

Classroom Management, Lisa Kelp

Tried and true suggestions for making the SEPUP classroom run smoother and more effectively.

High School SEPUP, Hethyr

This workshop will introduce the new SEPUP NGSS high school biology course through a popular activity!

Inclusive Instruction: Supporting Diverse Learners, Manisha, SEPUP author

This workshop will examine several support strategies for working with diverse learners and EL.

NGSS-Focused Summative Classroom Assessments of Three-Dimensional Learning, Maia, SEPUP author

Review summative three-dimensional assessments developed to align with the NGSS PEs and learn about the project SEPUP is leading to develop these curriculum agnostic assessments.

Portal Help, Chris

Have any questions about Lab-Aids' online resources or want a deeper dive? Come to this Q&A session to ask all your questions about the Lab-Aids Portal.

Social Media for Teachers 101, Stephanie

How can teachers take advantage of social media to grow their PLCs both within the Lab-Aids community and beyond? Ever wanted to jump into twitter but don't know where to start? In this session we will explore the Issues and Science Facebook group as well as other accounts both on FB and Twitter that can help inform your practice.

STEM, after-school, summer school idea Tinkering, Mark or Stephanie

Need a Summer School idea? Running an after-school STEM club? Come experience our new partnership with Tinkering Labs and make a ride for a toy!

Supporting Teachers New to SEPUP, Hethyr

Teacher turnover is real and trying to bring a teacher up to speed on a new curriculum can be challenging. This session, designed for teachers and administrators, will go over strategies and ideas to help streamline the support needed for teachers new to the SEPUP curriculum at both the district and classroom level.

Tracking Phenomena through a SEPUP unit, Lisa Martin Hansen

Participants explore how SEPUP unit activities develop connections to the anchor and investigative phenomena. This session will focus on phenomena, and charting treatment of phenomena using lessons from a sample unit.

Tracking Student Learning, Misty Richmond

Looking for ways to help students keep track of their own learning throughout an instructional unit? Learn about one activity wrap-up strategy that helps students process their own learning after each activity. Activity wrap-ups can be done independently within a science journal (paper or digital) and paired with student or teacher created anchor charts.

UbD in SEPUP Assessment, Lisa Yemma

Get Even More from the SEPUP Assessment System! Begin with the end in mind! The SEPUP Assessment system can help you and your students get more out of your time together. In addition to the Assessment Blueprint, Scoring Guides, and Student Responses, you can incorporate the Driving Question Board and Sensemaking Questions to gather evidence for the growth of your students. This session maps out a plan that you can take with you and start using right away.

5:00 Final conference evaluation, certificates, and group photo, Mark

6:00 Dinner, on your own

Friday, July 1

7:00 Continental Breakfast, hotel, on your own - Safe travels back home!