

A Partnership to Adapt, Implement and Study a Professional Learning Model and Build District Capacity to Improve Science Instruction and Student Understanding



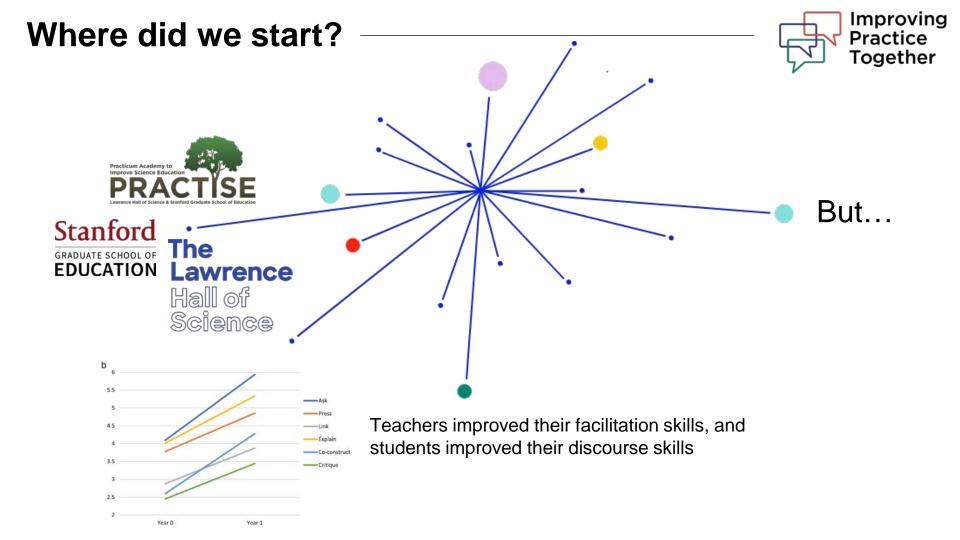
In partnership with:



GRADUATE SCHOOL OF



DRL # 1720894, #1720930

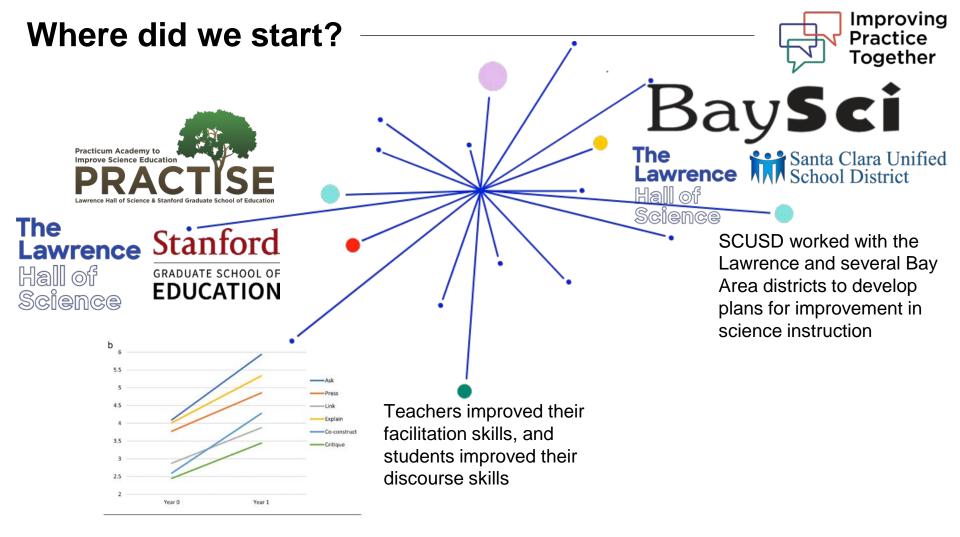


Hire or DIY?



Hiring external professional learning providers to lead intensive PL programs is costly. We (The & Stanford) wondered...

What would it look like to support a district to build its own capacity to implement an effective model of professional learning using teacher leaders, and guided by district needs and priorities?



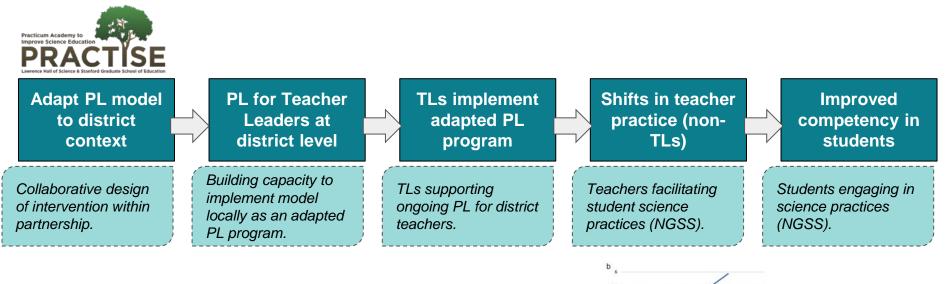
A brief video

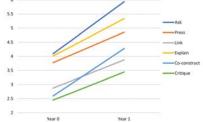




IPT Theory of Change

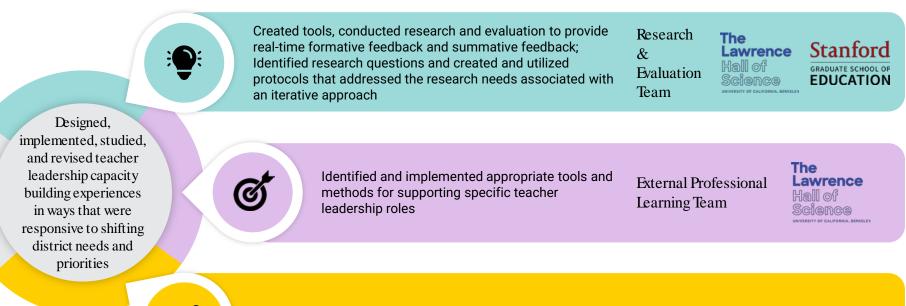






A Process of Co-construction





Identified needs and potential roles for teacher leaders as district priorities and structures shifted

School District

Santa Clara Unified School District

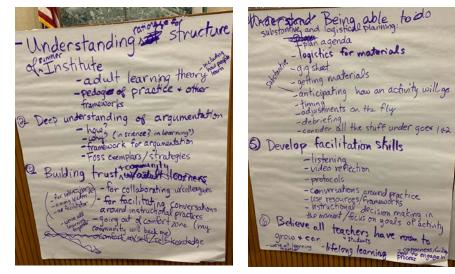
Skills to Results

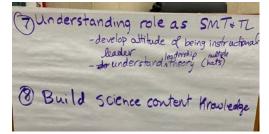


Skills required of teacher leaders

- facilitate video reflection - Model science exemplar activities, including argumentation lead discussions related to pedagogy planhadult learning activities facilitate reflection lead decomposition activities -introduce research-based frame works

Resulting goals of teacher leadership PL





Teacher Leadership Development Framework



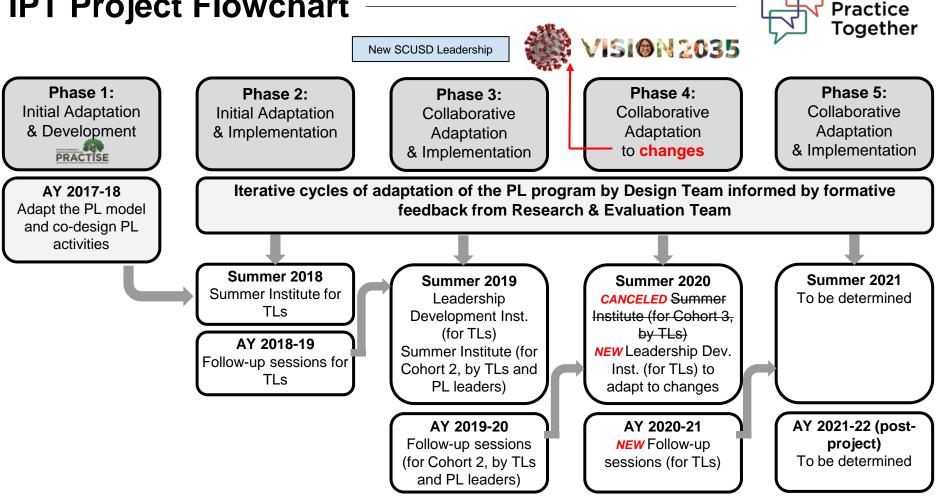


Leading Other Teachers

Leadership from the Classroom

Developing Capabilities to Lead Others

IPT Project Flowchart



Improving

Iteration Over Time



Original Research Questions

RQ1: Adaptation and Development: 1a) What

modifications and adaptations to the PRACTISE PL model and resources are required for implementation by a school district? 1b) What tools and resources are needed to prepare and support TLs to implement the PL program independently?

RQ2: Implementation: 2a) How is the adapted PL program implemented by TLs in the Summer Institute and follow-up sessions during the year? 2b) What role do the PRACTISE activities and resources, and district contextual features play in TLs' implementation of the program with district teachers?

RQ3: *Outcomes:* 3a) How does the adapted PL program impact classroom discourse practices? 3b) What is the impact of teachers' participation in the PL program on their students' competence with scientific argumentation from evidence?

Modified Research Questions

RQ1: Adaptation and Development

1a) What modifications and adaptations to the PRACTISE PL model and resources are required for implementation by a school district?
1b) How does The Lawrence adapt activities, tools, resources and supports in order to prepare teacher leaders to implement the PL program during the COVID-19 induced shelter-in-place in the third year of the project?

RQ2: Implementation of the evolving PL program

2a) How has the adapted PL program evolved over time?

2b) What role do the activities, tools, resources, and supports to prepare teacher leaders play in the implementation of the program each year? How does this change over time?

RQ3: Outcomes of PL and Leadership Development for teacher thinking and practice

3a) How do classroom discourse practices of TLs and teachers change over time? How are these changes related to their participation in the PL program?

3b) How do TLs' and teachers' conceptions of how to teach science change over time? How are these changes related to their participation in the PL program?

RQ4: Partnership

4a) How does the partnership negotiate goals and roles, and how do partners balance priorities and commitments over time?4b) How does the design-based approach/research-practice partnership support change in teachers' and teacher leaders' practices around argumentation and discourse?



Supporting and Maintaining the Partnership

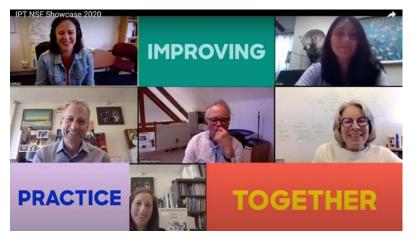
• A commitment to the value and importance of the work.



Improving Practice Together

Supporting and Maintaining the Partnership

- A commitment to the value and importance of the work.
- Good communication between all partners
 - Group interviews on the successes and opportunities for growth in terms of collaboration and communication



RPP BROKERS HANDBOOK, V.2 Acuter to Morezna in Execution Exercise Management Numero Provide Conserva-Seanch 2: March 2: The Online Note-taking Tool was designed to document professional learning activities and identify potential next steps, with the intent of providing timely, actionable feedback to facilitators.





1. Identify each PL activity's intended learning outcome

the most I*	MANY participants share in this debrief.
	Despite the fact that everyone is saving
10:00 DV gives listening debrief questions.	that contentual cars are challenging online, they are taking turns and
10.00 IK contributes that it was hard to do with two people. You want to share your own related experiences. SB says that she at least wanted to agree. KW adds in the	responding to each other very effectively and quickly
chat that she was using body language. J2 contributes that you want to empethice and share experiences. OV aids what it was like to talk without tering interrupted. AB coefficients that this works well for screen interactions, since cues for turn taking	It might be helpful for teachers to understand how the ways we are
could be different. Easier over a screen than face to face. TM shares that he thinks	working in the institute do (or do not)
that context requires speaking one at a time. AM shares that it's hard not to use body language. DV adds that people need to show that they are listening - anything that	apply to their work with teachers and/or students in different settings. For
helps the speaker unload. IS is having a hard time to see blank faces, the students do	example, when might see ward to use
not give a lot of feedback. DV does not inset to that and moves on. DV comments that constitues there is a need to share (3d she say this use in work the SMTs will do with other transfers). It was quick and I missed it - she mentioned that it applies to adult).	this kind of talk structure. (She slid a Rttle tot of this in the end.)
They did not clarify what the different levels are (prop to support other teachers and prepr to support their studiens).	thick that there mails is not that much time to share not and deepen the trachers' thought during share outs.
(feachers share problems on the chat, and is helping troubleshooting.)	Inscient montropound ware out.
	Enotice that they are a little behind time
20.38 Disea detricts the second dyed, again informing their roles with adults. "As you stup hote backworking notes, th's a nice tool to have in your hack pocket in case things and a fittle bit diory."	so that might be why they are shortness share such. Over and over (not just on the project), for sere have your just and do at many activities online - everything takes longer. The team may want to medjust to use less activities and almo-
	more time for debrief.

3. Quickly summarize feedback to PL facilitators during their daily debrief



Whole group - lack at line - discuss Ask in rationale / evidence 2. Collect data and thoughts related to the PL outcome in the same document

4 PL team,	
Here are the R&E observations for day 6 (Emily R. and Coralie):	
Dverall:	
The framing provided at the start of the day was very helpful to us and the teachers as we transitioned to a greater focus on iclence content in the second week	

We notice that the level's legerine's leader level association and "agreentics" leader level"), serve toth being addressed, then immunitancessi, the important the dry. There is a volume that the instance institude devolution at both wells in the leader of the deforth right to more separation of the outcomes the level are promoted separately is a. What net projections for your control as a leader" had and well with the term of the level are promoted separately in a leader is not an experimental and the separation of the outcomes the level are mutually suggestive and that many ability processes traviable between the tota lyans.

Watching and debriefing a video where Emily W facilitates electromagnets using a line up

- [Outcomes from the agenda: • Recognize and explain how a facilitator uses content knowledge and facilitation moves to lead a productive discussion one that moves learners toward the normative understanding
- Increase awareness of the considerations that need to be made in the design and implementation of a session]

In small groups, teachers lended to focus on the facilitation level (particular moves) rather than the design level (the question under discussion, the use of the loss lines), the use of the potent to document thoughts). Many very important considerations adout the design level (armo of in "interiver of Finity Justice) photo traces that have the previous conceptors adout the context. Given that participants have not yet had much of an opportunity to process or practice these deas, we aren't sure to what earth (thin surements of these lactions was increased.

4. Brief email summary from R&E to PL team



Supporting and Maintaining the Partnership

- A commitment to the value and importance of the work.
- Good communication between all partners
 - Group interviews on the successes and opportunities for growth in terms of collaboration and communication
- An infrastructure for ongoing partner meetings

	IPT Leadership Team check-ins (all welcome if interested) Thursday, March 2 · 9:00 - 9:30am Weekly on Thursday
	Join Zoom Meeting
	Take meeting notes Start a new document to capture notes
0	
20	12 guests 6 yes Direction 2 no, 3 maybe, 1 awaiting
=	Running notes for 30-minute IPT leadership check-ins:
	Emily WEISS is inviting you to a scheduled Zoom meeting.

Supporting and Maintaining the Partnership

- A commitment to the value and importance of the work.
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- An infrastructure for ongoing partner meetings
- Liaison(s) whose role is to communicate • within and across all teams (boundary crosser)





Created tools, conducted research and evaluation to provide real-time formative feedback and summative feedback: Research & Lawrence Stanford Identified research questions and created and utilized Evaluation protocols that addressed the research needs associated with EDUCATION Team

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Designed. implemented, studied and revised teacher

leadership capacity

building experiences

in ways that were

responsive to shifting district needs and priorities

an iterative approach

Identified and implemented appropriate tools and methods for supporting specific teacher leadership roles

External Professional Learning Team

The Lawrence Science

Identified needs and potential roles for teacher leaders as district priorities and structures shifted

School District

Santa Clara Unified



Santa Clara Unified

Wisdom of Practice



Learnings about Partnerships

The context in which a partnership is established is likely to change, and projects will need to be ready to learn how to adapt in a flexible manner that sustains the value of the work in a changed or changing context.

- It is not uncommon for school district leadership to change, and for there to be an associated change in district priorities.
- For our project, like many others working with schools, the pandemic forced a re-evaluation of teacher and leader needs, what could be done in terms of data collection and professional learning and which aspects of the work might be most valued.
- It is important to be nimble and willing to redefine overall project goals and refocus activities.

Remember, partnerships involve humans, and people are complicated. We're also working with people who exist in a context different from our own–different pressures, priorities, needs, concerns, and timelines.

