Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Hortensia S. West Date: 8/15/2018

Name of Event: CASTL

1. **Please rate the following statements:**

	NA	Strongly Agree 1	2	3	4	Strongly Disagree 5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:** The most important learning today was The way scaffolding happen and the linking of all the events.

3. **How will you incorporate your learning from today in your instructional practice?**

Questioning, Modeling and elicit talks will be part of my instructional practice. I found that what I learned, helped me understand The importance of scaffolding with activities that are link to The objective

4. **What supported your learning the most today?**

Everything came together from all three days and I found growth in my knowledge and vocabulary through the support of others discussion, and hands on activities

5. **What supported your learning the least today?** NA

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Jan Dormaier Date: 8/15/18

Name of Event: CASTL

1. Please rate the following statements:

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	✓2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	✓1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	✓2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	✓1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	✓2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	✓2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	✓2	3	4	5

2. Share your most important learning from today:

The idea of finding a phenomenon to guide your planning and instruction, understanding how to judge the value of a phenomenon.

3. How will you incorporate your learning from today in your instructional practice?

I plan to find a few phenomena and practice the planning process.

4. What supported your learning the most today?

The collaborative discussions about the ocean acidification example helped me practice the process.

5. What supported your learning the least today?

The non-biology high school "gotta have" did not go well. It was confusing and it felt like 2 people dominated the experience.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Kim 'Rosie' Bryson-Chanley Date: 8/13-15/18

Name of Event: CASTL Training

1. Please rate the following statements:

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	(2)	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. Share your most important learning from today:

create a structure for developing a science curriculum

3. How will you incorporate your learning from today in your instructional practice?

the curriculum will be built with it as a structure

4. What supported your learning the most today?

facilitator input

5. What supported your learning the least today?

the 3 days ended up being long There was so much to share I don't know how you would schedule fewer days.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Brian MacNevin Date: 8/15/2018

Name of Event: CASTL

1. Please rate the following statements:

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. Share your most important learning from today:

Group collaboration

3. How will you incorporate your learning from today in your instructional practice?

Picking one small piece

4. What supported your learning the most today?

Groups + time to think!

5. What supported your learning the least today?

Planning Time

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Barbara Bramley Date: 8/15/18

Name of Event: CASTL

1. Please rate the following statements:

		Strongly Agree				Strongly Disagree
	NA	(1)	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. Share your most important learning from today:

- the entire process. How we walked through each compone

3. How will you incorporate your learning from today in your instructional practice?

- start by incorporating student talk moves, collaboration with 2 other 5th grade teachers, implementation of a AST unit this coming year

4. What supported your learning the most today?

- working closely with the instructors

5. What supported your learning the least today?

n/a

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Sam Garson Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	(5)
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	(5)
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	(4)	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	(5)
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	(5)
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	(5)
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	(5)

2. **Share your most important learning from today:**

Gapless explanations

3. **How will you incorporate your learning from today in your instructional practice?**

Using the model to redesign living earth

4. **What supported your learning the most today?**

Examples of lessons

5. **What supported your learning the least today?**

Varying grade level relevance, more time in grade/subject bands would be great.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey 8/13/2018-

Name: Heather Beasley Date: 8/15/2018

Name of Event: AST - Anacortes

1. **Please rate the following statements:**

	NA	Strongly Agree				Strongly Disagree
		1	2	3	4	(5)
Today was productive and helpful	NA	1	2	3	4	(5)
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	(5)
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	(3)	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	(5)
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	(4)	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	(5)
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**
   - Practicing and preteaching student discourse.
   - Tools for facilitating student talk.
   - Why to allow student misconceptions.

3. **How will you incorporate your learning from today in your instructional practice?**

   I have a goal to plan the following additions to my science instruction:
   - Questioning (planning a RPQ)
   - Adding more modeling (before, after) activities

4. **What supported your learning the most today?**
   - Hand-outs about discourse and modeling
   - Making charts on Must Haves on a model.

5. **What supported your learning the least today?**

   You all were a great teaching team, I have concrete tools to implement right away as well as a lot to strive for in the future.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Jennifer Pfeffer Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

The importance of modeling / revising a model is essential in sensemaking.

3. **How will you incorporate your learning from today in your instructional practice?**

3 goals
* incorporate modeling in my units
* Back pocket questions
* summary tables

4. **What supported your learning the most today?**

- partner discussion
- planning time
- access to facilitators

5. **What supported your learning the least today?**

Gotta have checklist was unclear / frustrating. (but that is OK.)

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Janet Heafvedt Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	~~1~~	~~2~~	3	4	5
Today was productive and helpful	NA	1	~~2~~	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	~~2~~	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	~~2~~	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	~~3~~	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	~~2~~	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	~~2~~	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	~~1~~	2	3	4	5

2. **Share your most important learning from today:**

I liked the format of the Summary Table

3. **How will you incorporate your learning from today in your instructional practice?**

I plan to make "Back Pocket" ?'s so I am not wondering where to go next in my lesson.

4. **What supported your learning the most today?**

The Big Idea / Phenomenon will direct my Unit Planning

5. **What supported your learning the least today?**

I would like less Whole Group share out when the small group was already effective

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Kyle NieKamp Date: 8/15/18

Name of Event: Ambitious Science Training

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	(1)	(2)	3	4	5
Today was productive and helpful	NA	1	(2)	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

strategies to help support student science talk and discussion

3. **How will you incorporate your learning from today in your instructional practice?**

Planning our science units using ideas and strategies from AST

4. **What supported your learning the most today?**

Time to start planning an AST unit

5. **What supported your learning the least today?**

whole group share-outs following small group share-outs ... (we hear the same ideas multiple times)

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Doss Herndon-Schepper Date: 8/15/18

Name of Event: AST

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	(2)	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

Overall, building a unit around an anchoring event, pre-writing questions, building an explanation to the all engagement to has increased my understanding.

3. **How will you incorporate your learning from today in your instructional practice?**

- Questioning improvements
- teaching listening strategies
- tying engagements to an event

4. **What supported your learning the most today?**

Modeled best practices

Good collaboration - from setting up positive culture

5. **What supported your learning the least today?**

My own fatigue, fragmented thinking

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Shameem Sherwin Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

group collabs

3. **How will you incorporate your learning from today in your instructional practice?**

Pick one theme

4. **What supported your learning the most today?**

groups

5. **What supported your learning the least today?**

planning

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Jon L. Nauert Date: 8-15-2018

Name of Event: CASTL training

1. Please rate the following statements:

	NA	Strongly Agree				Strongly Disagree
		1	2	3	4	5
Today was productive and helpful	NA	1	(2)	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. Share your most important learning from today:

We need to be patient with ourselves.

3. How will you incorporate your learning from today in your instructional practice?

I suspect I will mostly use it in 9th grade science, which I'm not teaching this year. But I do think I can CASTLize one or two units in my College Physics course.

4. What supported your learning the most today?

Time to work.

5. What supported your learning the least today?

The "Must Have" list activity was not adequately explained and really needed the full collection of unit activities, several of which we had skipped.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: M. Fallows Date: 8/15/16

Name of Event: CASTL → 3 days

1. Please rate the following statements:

	NA	Strongly Agree 1	2	3	4	Strongly Disagree 5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. Share your most important learning from today:

I feel much more comfortable about the Ambitious Science Teaching process/program, and I feel less overwhelmed because I realized it's OK to start small.

3. How will you incorporate your learning from today in your instructional practice?

Many ways - primarily by increasing student discourse that is productive and helpful in improving student thinking.

4. What supported your learning the most today?

The well-thought out progression of the workshop, and the extremely knowledgeable and helpful facilitators.

5. What supported your learning the least today?

I can't think of any aspect that wasn't extremely helpful!

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Chantal Flech Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	(5)
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	(5)
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	(5)
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	(5)
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	(4)	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	(5)
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	(5)

2. **Share your most important learning from today:**

The importance of student talk to develop their sense-making/thinking about science concepts/processes

3. **How will you incorporate your learning from today in your instructional practice?**

I plan to develop a unit based on AST model. In particular, I want to emphasize student talk, building equity for all students

4. **What supported your learning the most today?**

Collaboration w my grade level peers.

5. **What supported your learning the least today?**

Everything was great.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Lawrence Lewis Date: Aug. 15, 2018

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

Learning more about modeling, such as using it for assessment purposes.

3. **How will you incorporate your learning from today in your instructional practice?**

I'm going to try modeling for my first unit. I'm going to try to keep/maintain a summary table, too.

4. **What supported your learning the most today?**

The options of the different breakout sessions as well as the work time.

The lunches helped a lot, too!

5. **What supported your learning the least today?**

I suppose the "magic bean" reading. I understand the significance, but I would've liked to see something from a secondary perspective and/or cultural experiences of Hispanic students since they are a large percentage.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Lisa Harpel Date: August 13-15, 2018

Name of Event: CASTL Summer Boot Camp

1. **Please rate the following statements:**

	NA	Strongly Agree 1	2	3	4	Strongly Disagree 5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

I'm excited about the summary chart for unit planning. Each of the columns help me focus on important ideas.

3. **How will you incorporate your learning from today in your instructional practice?**

I'm already planning changes in my first unit of instruction, using a model for developing understanding.

4. **What supported your learning the most today?**

I appreciated the examples from classroom talk, class units, and our O.A. unit.

5. **What supported your learning the least today?**

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Gina Westrich Date: 8/15/18

Name of Event: CASTL - 3 Day Immersion

1. **Please rate the following statements:**

	NA	Strongly Agree				Strongly Disagree
		1	2	3	4	5
Today was productive and helpful	NA	1	(2)	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

How to start the planning process for a unit; How are the pieces fit together; Dont need entire unit to implement aspects - can do it about a lesson

3. **How will you incorporate your learning from today in your instructional practice?**

- Will implement an Orca unit in Biology designed with Scott & Mukilteo ~~Seter~~ biology teachers
- Will implement mini unit on student talk lesson to set the classroom culture for the year.

4. **What supported your learning the most today?**

Looking at examples, discussing with colleagues

5. **What supported your learning the least today?**

All was helpful. Thank you everyone for this wonderful experience

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Carlene Crossman Date: 8/15/18

Name of Event: Castle

1. Please rate the following statements:

	NA	Strongly Agree 1*	2	3	4	Strongly Disagree 5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. Share your most important learning from today:

3. How will you incorporate your learning from today in your instructional practice?

There is so much to choose from, but I will try and pick 1 thing to implement.

4. What supported your learning the most today?

Teacher-presenters sharing how they started to apply their learning :)

5. What supported your learning the least today?

There was nothing that detracted from my learning. Everything was helpful - including breaks, wonderful food at lunch time and other teachers sharing their experiences!

I have to consider if the more opportunities to sit w/ or work w/ grade level bands, I spent most of my time w/ middle school teachers + I teach

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Anne McGreevy Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	(1)	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	(3)	4	5

2. **Share your most important learning from today:**

Learning the modeling process.

3. **How will you incorporate your learning from today in your instructional practice?**

I intend to start by identifying the Big Ideas and then creating and implementing some modeling activities into my classes.

4. **What supported your learning the most today?**

Seeing examples of other teacher's tools and modeling assignments.

5. **What supported your learning the least today?**

A little too much down time in the afternoon on 8/15.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Shannon Fath Date: 9-15-18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

I learned a lot from experiencing the AST process and making sure I make student learning equitable and visible.

3. **How will you incorporate your learning from today in your instructional practice?**

I am planning to use AST science created materials for our second grade science units.

4. **What supported your learning the most today?**

All of the visuals and hands on participation were very beneficial

5. **What supported your learning the least today?**

I felt very engaged

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Hannah Smith Date: 8/13-15

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

phenomena & equity ideas

3. **How will you incorporate your learning from today in your instructional practice?**

Revamping our first unit with summary table, discussions, student talk.

4. **What supported your learning the most today?**

Having time to hear how AST looks in the classroom (specific-summary table). Having time to collaborate allowed me to really flush out ideas

5. **What supported your learning the least today?**

Not having much time to collaborate on Monday.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Greg Bachmeier Date: 8/15/2018

Name of Event: CASTL Summer Institute

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	(2)	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	(3)	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

We are not expected to have entire unit planned right away.

3. **How will you incorporate your learning from today in your instructional practice?**

Work with my colleagues in a more informed ~~Manner~~ manner as we develop & revise units.

4. **What supported your learning the most today?**

Seeing the unit come to a close (gapless explanation example, summary table)

5. **What supported your learning the least today?**

Miscommunicated/unstructured afternoon time.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Kyle Swanson Date: 8-15-18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

So many ways to support student thinking. Modeling sticks with me the most

3. **How will you incorporate your learning from today in your instructional practice?**

Modeling
Student talk

4. **What supported your learning the most today?**

Time to think and work with peers.

5. **What supported your learning the least today?**

N/A maybe unstructured time

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: PAUL PITT Date: 8/15/2018

Name of Event: AMBITIOUS SCIENCE TEACHING (CASTL)

1. Please rate the following statements:

	NA	Strongly Agree				Strongly Disagree
		1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	~~2~~	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. Share your most important learning from today:

STRUCTURING UNITS TO SUPPORT LEARNING USING AST ARCHITECTURE.

3. How will you incorporate your learning from today in your instructional practice?

I WILL USE ~~IT~~ IDEAS FROM AST IN LESSON & UNIT PLANNING IN MY CLASSES

4. What supported your learning the most today?

EXAMPLES & ACTIVITIES THAT SHOWED HOW LEARNING CAN BE STRUCTURED AROUND A THEME, PROBLEM / PHENOMENON

5. What supported your learning the least today?

N/A

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Jennifer Selng Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

whoops!

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	(2)	3	~~4~~	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	~~4~~	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	~~4~~	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	~~5~~
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**
Collaboration is paramount. It makes you a better teacher; and relieves stress.

3. **How will you incorporate your learning from today in your instructional practice?**
- models (pre / post); discourse

4. **What supported your learning the most today?**
- collaboration! Notice a theme?

5. **What supported your learning the least today?**
Fatigue. :)

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: CARLY BOYD Date: 15 August 2018

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	(2)	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

How to accurately put together a summary table & the use of the sticky-note protocol

3. **How will you incorporate your learning from today in your instructional practice?**

By ~~intential~~ intentionally planning activities to have my students get the most out of a unit & to check myself to be sure I'm not doing activities just to do them.

4. **What supported your learning the most today?**

Breakout Sessions.

5. **What supported your learning the least today?**

not enough thinking time for some of the "pair shares"

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Chad Palmiter Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	(2)	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

I learned about / thought about / planned a number of ~~more~~ helpful strategies and techniques for students to talk about their ideas.

3. **How will you incorporate your learning from today in your instructional practice?**

I will use at least 4 new talk strategies (including sentence stems, talk techniques, and teacher facilitator strategies)

4. **What supported your learning the most today?**

Handouts with ideas, STEM Teaching web page, AST web page

5. **What supported your learning the least today?**

It felt slow at times. I teach physics, so ~~more~~ examples in my area would be nice to see.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Margaret A. Mrosla Date: Aug 13-15

Name of Event: CASTL

1. Please rate the following statements:

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. Share your most important learning from today:

Remembering to pause and think about all contributions from students to check for valve~~a~~ or find. And working on my 1st unit!

3. How will you incorporate your learning from today in your instructional practice?

I'm prepared to start planning my 1st unit centered around a phenomenon and I will use the resources found here to help with student-student discourse.

4. What supported your learning the most today?

The resources provided + the time to collaborate w/ peers.

5. What supported your learning the least today?

Nothing in particular.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Scott Coulan Date: 8/15/18

Name of Event: CASTL Boot Camp

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

I gained a deeper understanding of the four AST practices

3. **How will you incorporate your learning from today in your instructional practice?**

I will develop units of study around phenomena and provide opportunities for students to engage in modeling

4. **What supported your learning the most today?**

Time to reflect, plan and collaborate w/ colleagues

5. **What supported your learning the least today?**

It was great!

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Frieda Fuhrmann Date: 08/05/18

Name of Event: CASTL - NWESP

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

Modeling is a process used to show your learning over time → not a static, one time "build a model." Thanks Jamie!

3. **How will you incorporate your learning from today in your instructional practice?**

We're working together to connect our activities to phenomenon - using this as a metric for whether our activities will be helpful, engaging, relevant

4. **What supported your learning the most today?**

Breakout sessions combined w/ team planning time.

5. **What supported your learning the least today?**

I thought talking about the bean story would be a waste of time, but it led to a great discussion about seating charts/partners.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Chelsie Webb Date: 8/15/18

Name of Event: AST / CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

Student thinking is the most important!

3. **How will you incorporate your learning from today in your instructional practice?**

Starting small - summary table for one little phenomenon.

4. **What supported your learning the most today?**

Talking w/ others & seeing examples

5. **What supported your learning the least today?**

Not having the AST book to refer to was frustrating. Also the "gotta have ids" was confusing.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Alexis MacNevin Date: Aug. 15-2018

Name of Event: CASTL Bootcamp

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	(NA)	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

helping others to collaborate

3. **How will you incorporate your learning from today in your instructional practice?**

I will continue to develop unit scaffolds

4. **What supported your learning the most today?**

Chances to collaborate

5. **What supported your learning the least today?**

nada

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Rebecca Krueger Date: 08/15/18

Name of Event: Ambitious Science Teaching - CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	(3)	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

Thinking through a phenomenon with colleagues & applying tools + practices of AST

3. **How will you incorporate your learning from today in your instructional practice?**

So many ways - talk, assessment, entire classroom experience

4. **What supported your learning the most today?**

developing models

5. **What supported your learning the least today?**

15 minutes to process equity article

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: James Yoos Date: 8/15/13

Name of Event: CASTL Book Camp

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	~~1~~	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	~~1~~	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	~~1~~	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	~~2~~	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	~~1~~	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	~~2~~	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

Outstanding opportunity for collaboration with peers!

3. **How will you incorporate your learning from today in your instructional practice?**

I plan on continuing my work with AST practice in my classroom.

4. **What supported your learning the most today?**

Time!

5. **What supported your learning the least today?**

Breaks - needed, but didn't necessarily support my learning.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Julie Ross Date: 8-15-2018

Name of Event: CASTL

1. **Please rate the following statements:**

	NA	Strongly Agree				Strongly Disagree
		1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

- planning ahead specific questions to elicit evidence based responses
- identifying meaningful anchor phenomena

3. **How will you incorporate your learning from today in your instructional practice?**

- planned ahead questions
- identify phenomena for units

4. **What supported your learning the most today?**

- scaffolded learning
- examples to walk through as a student
- planning time with collaboration

5. **What supported your learning the least today?**

no complaints

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Jocelyn Rogers Date: 8.15.18

Name of Event: CASTL

1. **Please rate the following statements:**

	NA	Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

- lesson planning steps
- modeling.

3. **How will you incorporate your learning from today in your instructional practice?**

- will be using scaffolding / poster to illicit students' preconceptions and revisions of ideas.

4. **What supported your learning the most today?**

facilitators

5. **What supported your learning the least today?**

book

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Anne Mortimer Date: 8-15-18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

Using phenomenon & summary tables to tie multiple lessons together & push students to make more complex connections.

3. **How will you incorporate your learning from today in your instructional practice?**

I already have! My content team is building a phenomena-based unit & creating a summary table to connect the lessons.

4. **What supported your learning the most today?**

Time to work with my team / content-like Co-workers!

5. **What supported your learning the least today?**

Gallery walk of unit posters from teachers. It was hard to see how it wall all connected.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Lane Hoback Date: 9/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	X	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	X	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	X	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	X	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	X	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	X	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	X	3	4	5

2. **Share your most important learning from today:**

Impetus to transfer responsibility to question in class to students.

3. **How will you incorporate your learning from today in your instructional practice?**

More formative assessment with more student initiated discussion.

4. **What supported your learning the most today?**

Discussion w/ other teachers

5. **What supported your learning the least today?**

?

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Jane Stockton Date: 8/15/2018

Name of Event: CAST 2

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

TO work it out through small chunks and make what is manageable.

3. **How will you incorporate your learning from today in your instructional practice?**

I'm starting small with Sentence Stems and models.

4. **What supported your learning the most today?**

Time to talk it out and work with others.

5. **What supported your learning the least today?**

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Lynn Davis Date: Aug. 15, 2018

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

How important it is to coach students on discourse when discussing in small and whole group settings.

3. **How will you incorporate your learning from today in your instructional practice?**

I am planning on working with my teacher partner to use summary charts to go along w/ science activities in our 1st grade classrooms.

4. **What supported your learning the most today?**

Having time to work w/ my teaching partner and start initial unit planning.

5. **What supported your learning the least today?**

—

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Mark DeRew Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

	NA	Strongly Agree 1	2	3	4	Strongly Disagree 5
Today was productive and helpful	NA	1	(2)	3		5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	(4)	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

Use of models and their importance.

3. **How will you incorporate your learning from today in your instructional practice?**

Begin to create concepts and practices that implement the student artifacts

4. **What supported your learning the most today?**

Conversations with peers from the districts

5. **What supported your learning the least today?**

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Colleen Burrows Date: August 15, 2018

Name of Event: CASTL Training.

1. **Please rate the following statements:**

	NA	Strongly Agree 1	2	3	4	Strongly Disagree 5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

Using the summary charts in planning and in student reflection.

3. **How will you incorporate your learning from today in your instructional practice?**

- Discussion tools
- modeling + summary charts

4. **What supported your learning the most today?**

- break-out sessions with specific examples from teacher work

5. **What supported your learning the least today?**

Planning time.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Tony Helgeson Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

	NA	Strongly Agree				Strongly Disagree
		1	2	3	4	5
Today was productive and helpful	NA	1	(2)	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

Learning how to start the planning process to create units to align w/ NGSS

3. **How will you incorporate your learning from today in your instructional practice?**

Begin by creating models

4. **What supported your learning the most today?**

Interactions among teachers & lecturers

5. **What supported your learning the least today?**

reading articles

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Don Pringle Date: 8/13/18 – 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

	NA	Strongly Agree 1	2	3	4	Strongly Disagree 5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

Do not start with the model (phenomenon)!

3. **How will you incorporate your learning from today in your instructional practice?**

I am looking forward to trying modeling.

4. **What supported your learning the most today?**

The AST overview was exciting and I appreciated the time and effort put into the entire workshop.

5. **What supported your learning the least today?**

The breakouts were good but it was a bit like drinking from a fire hose.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Jennifer Johnson Date: 8/15/18

Name of Event: CAST Training

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

Ocean acidification unit is "done" + ready for Chemistry of Earth course :)!

3. **How will you incorporate your learning from today in your instructional practice?**

I am a TOSA - much of this we have already begun - refining my own pd practice + some new resources to share/use.

4. **What supported your learning the most today?**

Time to collaborate w/ team.

5. **What supported your learning the least today?**

~~Lack~~ overviews of topics that need more attention. Felt like a drive-by.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Sean Sposeri Date: Aug 13-15

Name of Event: _____

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	(2)	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)		3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)		4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2		4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

Add modeling first.

3. **How will you incorporate your learning from today in your instructional practice?**

Adding Modeling and creating units that are phenomenon based

4. **What supported your learning the most today?**

Doing the Ocean acidity activities helped me understand the ASI Process from a student perspective.

5. **What supported your learning the least today?**

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Carianna Gischer Date: 8-15-18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

Allowing the students to recognize their changing thinking is the learning.

3. **How will you incorporate your learning from today in your instructional practice?**

Have developed my first phenomena + model. Will tackle it!

4. **What supported your learning the most today?**

Examples today were very helpful.

models summary tables

5. **What supported your learning the least today?**

Not having work time day one.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Heather Farren Date: 8-15-18

Name of Event: CASTL

1. **Please rate the following statements:**

	NA	Strongly Agree				Strongly Disagree
		1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	(3)	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	(3)	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

- Summary tables
- If an activity doesn't support big idea of that unit - why is it there?

3. **How will you incorporate your learning from today in your instructional practice?**

We are already working on restructuring a unit to include a phenomena. I really like this having a big picture framework thing

4. **What supported your learning the most today?**

Time to work with my group and apply what we learned
The whole summary table thing - do all the activities support the main idea? If not, why are we doing it?

5. **What supported your learning the least today?**

The beginning reading was too long (too much time spent on discussion)

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Brooke Jillian Date: 8.15.18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	~~4~~	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

Sharing resources and know how on how to access them

3. **How will you incorporate your learning from today in your instructional practice?**

lots of changes in practice from talk moves, to specific questions/strats

4. **What supported your learning the most today?**

the facilitators! Can't believe how awesome/supportive/knowledgable they all are

5. **What supported your learning the least today?**

Moving from places to places disoriented me.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Jere A. Cable Date: 9/15

Name of Event: Ambitious Science Teaching

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

Take things slow / small steps

3. **How will you incorporate your learning from today in your instructional practice?**

I'm going to start with increasing my questioning practices & try to incorporate more formative assessments

4. **What supported your learning the most today?**

The idea of not trying to do too much at once

5. **What supported your learning the least today?**

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Michael Bloom Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

Lots of "New Learnings" - chose 1 for today - illicit student responses - to support the develop & revising of models.

3. **How will you incorporate your learning from today in your instructional practice?**

See above

4. **What supported your learning the most today?**

- Working with my peer group -
- The creation of time within the workshop to "work" on Ambitious instruction.

5. **What supported your learning the least today?**

Ø ☺

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Travis Brown Date: Aug 13-15

Name of Event: CASTL

1. **Please rate the following statements:**

	NA	Strongly Agree 1	2	3	4	Strongly Disagree 5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

How to implement AST practices and incorporate equity into my teaching

3. **How will you incorporate your learning from today in your instructional practice?**

Immediately → try to incorporate Modeling into my practice

4. **What supported your learning the most today?**

The opportunity to experience the process as a learning

5. **What supported your learning the least today?**

At times to much sitting

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Malia McDowell Date: 8/15/18

Name of Event: CASTL Boot Camp

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

helping others to collaborate & watching teachers ~~teach~~ teach

3. **How will you incorporate your learning from today in your instructional practice?**

4. **What supported your learning the most today?**

Other facilitators working to respond to Participant needs

5. **What supported your learning the least today?**

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Donna Hutchinson Date: Aug 13-15, 2018

Name of Event: CASTL

1. **Please rate the following statements:**

	NA	Strongly Agree				Strongly Disagree
		(1)	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

The process to develop a unit using phenomenon.

3. **How will you incorporate your learning from today in your instructional practice?**

I will begin by using modeling in class as a way to promote student talk.

4. **What supported your learning the most today?**

Reviewing the posters produced by teachers that we saw on day one.

5. **What supported your learning the least today?**

The break out sessions did not go into depth for each topic. Needed an opportunity to create each item.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Jamie Johnson Date: 08/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

I feel I am prepared to bring climate related science questions and activities to my instruction.

3. **How will you incorporate your learning from today in your instructional practice?**

Big ideas and questions drawn from NGSS to my grade level.

4. **What supported your learning the most today?**

The wide range of knowledge & experiences of the instructors and fellow teachers.

5. **What supported your learning the least today?**

More K-2 ideas & representation.

Summary charts wish I knew more.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Laura Friend Date: Aug 13-15, 2018

Name of Event: Ambitious Science Teaching

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	(2)	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

3. **How will you incorporate your learning from today in your instructional practice?**

Having already tried out some of these practices last year, I'm ready to help my colleagues begin and embrace them

4. **What supported your learning the most today?**

Hearing the different ways facilitators have implemented these tools/approaches. + Seeing

5. **What supported your learning the least today?**

A lot of sitting on Day 3

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Mike Thingan Date: Aug 15th, 2018

Name of Event: Ambitious Science Teaching

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

Models help students synthesize their learning and tie activities to a phenomenon

3. **How will you incorporate your learning from today in your instructional practice?**

(1) I will ~~practice~~ practice eliciting student ideas that help value student thinking and guide instruction

4. **What supported your learning the most today?**

The book, conversation with my table mates

5. **What supported your learning the least today?**

Quickly rushing through slides (although I understand why!)

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Kristin Lessley Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

	NA	Strongly Agree 1	2	3	4	Strongly Disagree 5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

Using models and modeling in my teaching to facilitate deeper thinking in my students.

3. **How will you incorporate your learning from today in your instructional practice?**

Re-designing my units using anchoring events & models

4. **What supported your learning the most today?**

Collaboration w/ peers
Concrete examples + resources

5. **What supported your learning the least today?**

Sit-and-get

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Amy Rathke Cowsert Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

Overview of AST

3. **How will you incorporate your learning from today in your instructional practice?**

applying strategies to my science classes

4. **What supported your learning the most today?**

Collaboration w/ other teachers

5. **What supported your learning the least today?**

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Amy Davis Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	(2)	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	(2)	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

I recognized the importance of modeling throughout investigating a phenomena.

3. **How will you incorporate your learning from today in your instructional practice?**

Using the student talk packet of ideas, beginning to explore summary tables + modeling more.

4. **What supported your learning the most today?**

Group discussion + activities.

5. **What supported your learning the least today?**

The activities

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Jodi Crimmins Date: 8/15/18

Name of Event: CASTL Summer Learning Institute

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

HaHa

2. **Share your most important learning from today:**
The tools ♥ Studen discourse support♡

3. **How will you incorporate your learning from today in your instructional practice?**
I will directly dive into planning using AST Tools as my first step.

4. **What supported your learning the most today?**
Time to process/plan ♡

5. **What supported your learning the least today?**
Today was great!
At first I felt a little rushed / overwhelmed... but it all came together today.

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Margaret Morgan Date: 8/15/18

Name of Event: CASTL Bootcamp

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

Watching other teachers & teams of teachers

3. **How will you incorporate your learning from today in your instructional practice?**

↑ # of AST units next year
increase collaboration w/ colleges

4. **What supported your learning the most today?**

Variety of tools

5. **What supported your learning the least today?**

None

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Chris Scott Date: 8-14-18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	1	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	2	3	4	5

2. **Share your most important learning from today:**

Watching other teachers teach

3. **How will you incorporate your learning from today in your instructional practice?**

more AST ideas

4. **What supported your learning the most today?**

watching others teach gave me ideas to try

5. **What supported your learning the least today?**

Seeing other FB groups

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Cathy Nitchman Date: 8-14-18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

Lesson + training to use w/ my students.

3. **How will you incorporate your learning from today in your instructional practice?**

Definitely going to use modelling to illicit student understandings!

4. **What supported your learning the most today?**

Chance to collaborate w other teachers!

5. **What supported your learning the least today?**

Nothing

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Charlotte Mack Date: 8-15-18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	X	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	X	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	1	X	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	1	X	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	X	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	X	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	X	3	4	5

2. **Share your most important learning from today:**

summary chart

3. **How will you incorporate your learning from today in your instructional practice?**

models

4. **What supported your learning the most today?**

talking with other teachers

5. **What supported your learning the least today?**

the amount of down time. lost focus

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Laura Schultz Date: 8/15/18

Name of Event: CASTL - Ambitious Science

1. **Please rate the following statements:**

	NA	Strongly Agree 1	2	3	4	Strongly Disagree 5
Today was productive and helpful	NA	(1)	2	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	(1)	2	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	(1)	2	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	(1)	2	3	4	5

2. **Share your most important learning from today:**

It's okay to take baby steps

3. **How will you incorporate your learning from today in your instructional practice?**

Focus on sensemaking activities related to big ideas.

4. **What supported your learning the most today?**

Multiple learning modes

5. **What supported your learning the least today?**

Talking during work time

Collaboration for Ambitious Science Teaching and Learning

Clock Hours Survey

Name: Jeff Holtgeerts Date: 8/15/18

Name of Event: CASTL

1. **Please rate the following statements:**

		Strongly Agree				Strongly Disagree
	NA	1	2	3	4	5
Today was productive and helpful	NA	1	(2)	3	4	5
Today added to my growing set of practices related to Ambitious Science Teaching	NA	(1)	2	3	4	5
Today helped me understand more about how to assess student thinking when I analyze student work	NA	(1)	2	3	4	5
Today helped me develop more ways to elicit and support student discourse	NA	(1)	2	3	4	5
Today helped me develop more ways to support students' in modeling science explanations	NA	1	(2)	3	4	5
Today helped me develop more ways to scaffold student sense-making opportunities	NA	1	(2)	3	4	5
Today helped me develop more ways to support students in developing evidence-based explanations	NA	1	(2)	3	4	5

2. **Share your most important learning from today:**

Planning Time

3. **How will you incorporate your learning from today in your instructional practice?**

Create opportunities for more student ownership in their learning.

4. **What supported your learning the most today?**

Comments by colleagues.

5. **What supported your learning the least today?**

I found the task regarding "Gotta Have Lists" was confusing. It was very difficult to hear the local conversations in a noisy room.