

Whatcom Science Collaboratory

Inaugural Meeting Notes from Adrienne Somera

Vision

All students empowered to engage with the world as scientists and engineers.

Mission

To combine resources and engage science teachers in transitioning classroom instruction that incorporates science education research on instruction and learning as called for in *A Framework for K-12 Science Education* and reflected in the *Next Generation Science Standards*.

Goals

1. Support teachers' deeper learning around the three dimensions of *Next Generation Science Standards* as a focus for...
2. Engaging teachers through job-embedded collaboration around science instruction and learning so that...
3. Student develop their agency in science and engineering.

Outline:

In 2016-17, with 5 days of support from the NWESD Science Coordinator, we will engage Middle Science Teachers in exploring what NGSS means for science instruction: the integrated nature of the NGSS, the purpose for practices, and being able to recognize the practices in science materials and activities.

Day 1 (2016.11.04; 08:00- 02:30; Meridian SD):

1. Engaging in phenomenon-centred learning
2. The three dimensions of science instruction and how to read the NGSS
3. Closer examination of the Science and Engineering Practices
4. Focus on "Developing and using models"
5. Prepare for reflective planning: artefacts for "Developing and using models" and action planning

Day 2 (2017.01.13; 08:00- 02:30; Meridian SD):

1. Collaborative sharing and learning around student artifacts
2. Individual and collaborative reflection
3. Determining next focus and action planning

Day 3 (2017.03.10; 08:00- 02:30; Meridian SD):

1. Engaging in phenomenon-centred learning
2. Interconnected nature of NGSS
3. Collaborative sharing and learning around student artifacts
4. Determine next focus and action planning

Day 4 (2017.04.28; 08:00- 02:30; Meridian SD):

- Collaborative sharing and learning around student artifacts
- Path 1: Planning for Adapted Lesson Study
- Path 2: Responding to needs that arose

Day 5 (2017.05.12; 08:00- 02:30; Location TBD):

- Path 1: Studio Day
- Path 2: Responding to needs that arose

For Participants: What to bring!

1. Electronic device that is comfortable to read/research from.
2. Lunch or lunch money
(there is a Subway within walking distance and we will have a 45 min lunch)
3. Instructional materials that you are using and planning from

For Districts: What to send!

1. Standards and Appendices for each teacher
(order through Nancy Menard: nmenard@nwesd.org)
2. Administrators are invited to participate in the learning



- Chapter 3 framework, Appendix F appendices, self-reflection surveys from introducing teachers and admin, equip reference cards
- Time 8-2:30
- 45 min lunch, not provided
- Admin invited
- Middle school focus, maybe invite a high school teacher
- At Meridian except day 5, Day 5 Lynden likely
- Clock hours provided by OSPI