

## **Science Materials Cooperative Advisory Meeting October 13, 2017 | 1:00 pm – 3:00 pm**

### **SMC Cooperative Council Members Present:**

- Mark Hall, Ferndale
- Graham Cook, Lake Stevens
- Shelly Patterson, Lakewood
- Nick French, Monroe
- Frank Atkinson, Mt. Vernon
- Juan Gaona, Mt. Vernon
- Joni Swanson, Mt. Vernon
- Martha Thornburgh, Mt. Vernon
- Lisa Zimmerman, Mt. Vernon
- Mike Schweigert, Sedro-Woolley
- Philippa Farrell, Snohomish
- Lloy Schaaf, Stanwood-Camano
- Kelli Fisher, Sultan
- Pam Estvold, NWESD
- Joanne Johnson, NWESD
- Kelly Spears, NWESD
- Brian MacNevin, NWESD

### **What's New at the SMC**

- The NWESD is in the last year of our current 5-year lease with MVSD. We will begin renegotiating a new lease. We are currently guaranteed the North Building through August 31, 2019.
- Kelly hired four (4) new part time staff.
- NWESD applied for a Computer Science state funded grant. If awarded to the consortium of five west side ESDs, it could put STEM Robotics kits at the SMC to be utilized by member teachers.
- Fund balance beginning 2017/18 school year is approx. \$36,800. Based on an overall annual budget of approx. \$360,000.
- A new budget line item was created last spring when the refurbishment fee was raised to \$140 per kit. \$135 goes to operations and \$5 per is reserved to support moving into NGSS.

**Review Minutes** – The meeting minutes from May 16, 2017 were reviewed with no changes or questions.

### **Moving forward with NGSS**

- Burlington-Edison SD has created integrated science and social studies units using the Concept-Based Curriculum and Instruction model. These are works in progress. They are being used across the B-ESD. Before the NWESD SMC could consider using them they would need to be vetted for science content and NGSS compliance using the EQuIP rubric. This work can be found at [https://sites.google.com/a/be.wednet.edu/besd\\_science/](https://sites.google.com/a/be.wednet.edu/besd_science/)

- NWESD collaborated with ESD 112 and OESD 114 to create transition documents to be used with the following kits:

|                    |                    |
|--------------------|--------------------|
| Environments       | Landforms          |
| Balance and Motion | Matter and Energy  |
| Insects            | Solids and Liquids |
| New Plants         | Structures of Life |

Transition Guides are included with each kit. A sample guide is at:

<http://new-plants-ngss-transition.wikispaces.com/New+Plants+Transition+Guide>

An instructional video can be found at:

<http://fossngsstransitionsupport.wikispaces.com/home>

Joanne Johnson is available to provide professional learning at staff meetings, by appointment.

- NWESD got a small Computer Science grant to support five (5) teams of eleven (11) teachers who are working on writing new units using NGSS. These units are:

| Unit                      | Grade             | Current Status                             |
|---------------------------|-------------------|--|
| Motion and Design         | 5 <sup>th</sup>   | Kit being used this quarter                |
| May the Force Be With You | K                 | Will be used spring quarter                |
| Models and Designs        | 6 <sup>th</sup>   | Reworking to add life science              |
| Matter and Energy         | 5 <sup>th</sup>   | Teacher change in classroom – work on hold |
| Earth History             | 4-5 <sup>th</sup> | Will be used spring quarter                |

This work proves to be expensive and slow. These units still need to be vetted for science content and NGSS using the EQuIP rubric.

In May 2017 teachers chose K-2 Storylines for our work.

In June 2017 3-5 teachers came together to choose Storylines. Third and fourth grades matched the choice of the K-2 teachers and chose Achieve Inc. Thematic Bundles. 5<sup>th</sup> grade struggled. Data collected showed that 5<sup>th</sup> grade teachers were interested in doing their own bundling, creating their own Storylines, similar to those of the California NGSS framework. After discussion, the NWESD SMC Cooperative Advisory Committee chose the Achieve Inc. Thematic Bundles for the 5<sup>th</sup> grade Storyline. The document can be accessed at:

<https://files.nwesd.org/jjohnson/SMC/Storylines/NWESD%20SMC%20Proposed%20Storylines%203-5.docx>

### Next Steps

- The SMC Timeline Sept 2017 through Fall 2019 can be found at: <https://files.nwesd.org/jjohnson/SMC/moving%20forward%20doc201718.pdf>.
- The teachers who came together to create Storylines were enthusiastic about continued work around NGSS for science in their classrooms. These teachers can

make the core group for moving forward. The Advisory Committee recommended that the same teachers who work on gap analysis should also be encouraged to be part of an adoption process for the NWESD SMC. The SMC budget line item for NGSS support (\$8,000 projected this first year) will be used to provide lunches and share the cost of subs with member districts.

- Gap Analysis using our Storylines needs to happen, looking at current kits used in the NWESD SMC; Burlington-Edison SD integrated science units; NGSS work done at ESD105 and ESD112.
- Creating our own kits is slow and expensive. The SMC Advisory Committee feels that while we may be able to use some units and lessons, created by our teachers, we do not have the capacity to create everything.
- We believe that publishers will have NGSS ready materials in the spring of 2018, and our goal will be to have teachers able and willing to be part of an adoption process.
- The LASER model includes one new set of materials per grade level per year for teachers, up to 3 sets of materials per year, shared by 3 teachers. The NWESD SMC plans to follow this guideline. A K-8 adoption will take between 3 and 5 years, depending on available funding for adoptions. There is no additional funding being provided by WA State. Each cooperative member district will need to plan for the cost of the purchase of materials for their teachers. A sample cost example will be shared.

Resources:

A copy of the PowerPoint used at today's meeting can be found here:

<https://files.nwesd.org/jjohnson/SMC/101317MeetingMV.pptx>

Meeting adjourned at 3:00 p.m.