SMC

Advisory Meeting
Oct 13, 2017

Essential Questions

How shall we best spend the $$ set aside to support NGSS?

How will we get all teachers up to speed and ready to implement new materials once they are purchased?

What has to be happening in districts to be ready?

What else do we need to consider as a cooperative?

What's new at the SMC?

2017/18 is the last year on the current 5 yearLease

Four new staff

Westside ESDs collaboratively wrote a CS grant. If funded, there will be middle school STEM Robotics kits to add to our SMC.

Budget Report

2017/18 Beginning Fund Balance	$36,890
Spring 2016/17 we increased fees to $140 per usage	
$135 to support reburbishments	
$ 5 to support transitioning to NGSS	
New line item in our budget – NGSS support	$ 8000

Moving Forward into NGSS

Historical perspective

2013/14	Burlington-Edison SD began working with Concept-Based Curriculum and Instruction. Teachers created integrated science, social studies and ELA units. The incorporated technology and supported their teachers with Technology levy funds. Teachers worked in the summer in grade level teams.
2014/15	Those teams that were ready, piloted their integrated units in the Fall and Winter. In the spring all teachers came back together to improve their units. Teacher teams continued to work in the summer.
2015/16	Units were rolled out in some grades across the district and all teachers were asked to use them. Additional Teacher teams worked in the summer to create more units.
2016/17	Units as they are completed, are piloted, improved and rolled out across the district.

Burlington-Edison shares their work at https://sites.google.com/a/be.wednet.edu/besd_science/

Moving Forward into NGSS

Historical perspective

2015/16 NWESD collaborated with OESD 114 and ESD 112
Teachers from Snohomish, Lakewood, Stanwood-Camano, Mount Vernon and Sedro-Wooley
Came together in 3 x 6 hour sessions to add Transition documents to kits

These materials were made available beginning in FALL 2016 in the following kits:

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

These materials come with a reference to an instructional video:

http://fossngsstransitionsupport.wikispaces.com/home

Moving Forward into NGSS

Historical perspective

2016/17

NWESD secured a small Computer Science grant. SMC districts were asked to send willing and able teachers (those who wanted to do the work and had taught their kit more than once) to work on creating new units and lessons using SMC materials. 18 Teachers of Science were trained in the Concept Based Curriculum and Instruction design model.

11 teachers from Sedro-Woolley (5), Stanwood-Camano (5), and Mount Vernon (1) agreed to work on the curriculum writing process.
3 x 6 hours sessions Dec 2016 – March 2017

Moving Forward into NGSS

Historical perspective

Results of the Concept-Based CI units, October 2017:

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

Moving Forward into NGSS

Results Concept-Based CI units, October 2017

CONCLUSIONS:

1. Across the entire SMC, eleven intrepid teachers created 5 units to teach this year.
2. $10,000 of funding supported the work (subs, NWESD staff, materials, lunches)
3. Those that wrote new units must be the first to teach their creations in order to make adjustments.
4. There will be adjustments.
5. Units are only taught once per year.
6. Units must still be vetted against the EQuiP rubric.

7. THIS IS SLOW WORK JUST TO GET TO PUBLICATION.

Moving Forward into NGSS

Storylines

NWESD SMC Advisory accepted the recommendation to use Achieve Inc. Thematic Bundles for K-2 Storylines on May 16, 2017.

In June 2017 grades 3rd-5th grade teachers met to come to consider appropriate storylines for their students. Grades 3 and 4 selected Achieve Inc. Thematic Bundles.

Grade 5 struggled. Possible reasons:

- **5th grade teachers teach more science.**
- **5th grade teachers in the room have taught their science their way for a long time.**
- **It was difficult to separate the bundling documents from "curriculum".**
- **5th grade teachers in the room were respectful of each other and at the same time protective of their personal knowledge and ideas. Arguing with colleagues was hard.**

Moving Forward into NGSS

What's next?

Priorities, Possibilities, Questions, Decisions

FOR LEADERSHIP with help from _____

- Use our Storylines and do some gap analysis.
    1. What do we have that fits topically?
    2. Do we have interested teachers to help us? Many that worked on Storylines are enthusiastic!
    3. What would have to happen to how those units fit NGSS? Can the EQuiP rubric help us to know?
    4. Can any of the units recently created in Burlington-Edison help us? Can the EQuiP rubric help us?
    5. Where do the newly created units fit?

Moving Forward into NGSS

What's next?

Priorities, Possibilities, Questions, Decisions

FOR DISTRICTS

- **What is our work this year for ALL teachers?**
  - Are our teachers getting trained in NGSS?
  - Are our teachers using the NGSS Transition documents in kits with provided guides?
  - Are our teachers part of the processes of looking at existing materials or creating units?

- **When new materials are identified, how will we fund the expense?**
- **When new materials are identified, how will we assure all teachers are prepared to use them?**

Moving Forward into NGSS

What's next?

Priorities, Possibilities, Questions, Decisions

PROFESSIONAL LEARNING OPTIONS : 2017/18 is a year of learning so we have a group of teachers who are prepared to look at new materials when they come out in spring 2018 using the EQuiP rubric.

- Get Deep Dive into NGSS training.
- Use the Transition documents provided in selected kits practicing the instructional shifts.
- Learn about phenomena and seamless explanations to match storylines
- NGSS 102: A Deeper Dive – engineering, bundling and phenomena

Moving Forward into NGSS

What's next?

Priorities, Possibilities, Questions, Decisions

WHO CAN HELP?

Gap Analysis

Bring existing materials up to NGSS

Learn to be part of an Adoption Team

Questions?