

March 27, 2017

1

# K-5 Science Adoption Committee



## Agenda for Today

1. Analysis of final data from science pilot.
  - a) Winter Teacher Survey Data
  - b) Student Focus Group Data
  - c) Parent Survey Data
2. Adoption recommendation.

# K-5 Science Adoption Context

- The adoption of new materials is essential for our alignment with the Next Generation Science Standards (NGSS).
- The NGSS have been adopted by Washington State and will be the basis for state science assessments beginning in 2018.



Year	Grade 5
Spring 2017	Measurements of Student Progress Based on 2009 Science Standards
Spring 2018	Next Generation Science Assessment Based on 3-5 band of NGSS

# K-5 Pilot Structure

	<b>FALL</b>	<b>WINTER</b>	<b>SPRING</b>
Path 1	NGSS FOSS	NGSS Amplify	Unit from 2015-16
Path 2	NGSS Amplify	NGSS FOSS	Unit from 2015-16

- 65 teachers across 15 elementary schools.
- All teachers piloted both FOSS and Amplify



# NGSS FOSS & Amplify

The science adoption committee vetted material from multiple publishers and selected FOSS and Amplify for the pilot.



The Next Generation of FOSS is here!



## Elementary School

Our complete program for Grades K-5, available Fall 2017, recognizes the importance of students' engagement with hands-on experiences, and amplifies those with literacy-rich activities, closely aligned digital materials, and award-winning informational books.

- Physical Science: Available Fall 2016
- Life Science, Earth and Space Science: Available Fall 2017

# Amplify.



# K-5 Science Pilot Timeline

Date	Project Item
Spring 2016	Pilot Committee Reviews and Selects Materials for Pilot
May 2016	Recruit and Select Teachers for K-5 Science Pilot
August 2016	Initial K-5 Science Pilot Training
Fall and Winter 2016-17	K-5 Science Pilot Implementation & Second Training (11/16)
Jan. 23, 2017	Committee: Analyze Surveys from Fall Implementation
Feb. 27, 2017	Committee: Analyze Artifacts from Implementation
March 3, 2017	Pilot Teacher Feedback Forum
March 27, 2017	Committee: Analyze Findings from Winter Implementation
March – April 2017	Develop Pilot Report for IMC
April 2017	Deliver Findings and Recommendations to IMC
May 2, 2017	School Board Final Approval

IMC = Instructional Materials Committee

# Amplify

- Per Sharon Kautz, Executive Director of Curriculum and Instruction:
  - If the K-5 Science Adoption Committee recommends Amplify, the IMC will not support its adoption in 2017-18.
  - The primary concern is that the Amplify materials are not likely to be ready in time for an effective rollout. Furthermore, the committee will not support the adoption of unseen materials (e.g., life science units scheduled to be completed June, 2017).
  - Adoption of Amplify in 2018-19 is a possibility, but this will require reopening the process in 2017-18.

	<b>Amplify</b>	<b>FOSS</b>
Cost to Adopt Materials	\$1,928,390	\$1,519,478
Professional Development Days Provided by Publisher	36	72
Availability of Printed Teachers Guide	Not available	Included in the cost of materials adoption
Percentage of Curriculum Completed to Date	43% of units have been completed 5 units are projected to be completed June, 2017 7 units are projected to be completed Spring, 2017	100% of units have been completed
Publisher's Ability to Meet Deadlines Throughout Pilot	Kits for grades K, 3, 4 were each delayed by 1 month this fall.	Has met 100% of deadlines
Availability of Spanish Materials	Spanish materials were not completed in time for use in the pilot.	Spanish materials exist for each of the pilot units.
Number of Units Per Year at Each Grade Level	3 units per year in grades K-2 4 units per year in grades 3-5*	3 units per year at all grade levels



# Analysis of Winter Survey Data

Grade Levels:

Team Members (first names only):

<b>Here's What!</b> <i>Use factual statements</i> <i>What does the data conclude?</i> <i>What trends exist?</i> <i>What trends don't exist?</i>	<b>So What?</b> <i>Discuss Implications</i> <i>List possible reasons for what is noticed in the data</i>  <i>List possible information not represented in the data</i>	<b>Now What</b> <i>Action Steps</i> <i>What definitive conclusions can be drawn about each publisher at this point (if any)?</i>  <i>What are recommendations for next steps in data collection and analysis?</i>

- In teams, review the data and teacher comments by using the HSN What protocol.
- Record ideas from the team in the template.

# Teacher Survey Highlights

- FOSS scored higher on 19 of 26 categories.
  - Amplify scored higher on 3
  - 4 categories resulted in a tie.
- The average item score for FOSS was 3.0, whereas it was 2.7 for Amplify.
  - 4 = strongly agree                      3 = agree
  - 2 = disagree                                1 = strongly disagree
- Neither publisher scored well on engineering, though Amplify scored higher in this category.
- 80.4% of teachers favored FOSS for a large scale adoption.

# Student Focus Groups

Focus groups were conducted at Ardmore, Bennett, and Somerset.

The following themes emerged:

- Students preferred FOSS to Amplify
- Students cited the opportunity for more hands-on experience with FOSS: Engaging curriculum.
- Students appreciated the Amplify engineering experience.
- Students found the Amplify packets to be tedious and repetitive.
- Students want greater agency in their learning and more opportunities to create/design.
- Students frequently referenced Engineering is Elementary when recalling their favorite K-5 science learning experiences.

# Parent Survey

## 23 responses to the parent survey.

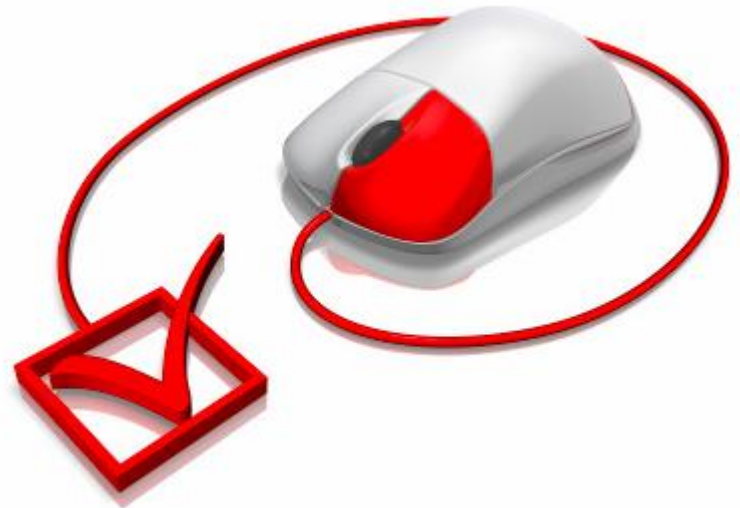
- Parent responses were supportive of K-5 science instruction, but tended not to draw comparisons between the publishers or indicate preferences.
- You may view all parent response on the SharePoint site (March 27 Folder).

## Sample Parent Response

**“I don't have any feedback specific to either program. I would support whichever program the teachers feel is a better choice. I am just so, so pleased that my 1st grader has had meaningful science integrated into his curriculum since starting K.”**

# Survey Time!

- The survey link has been sent to your email.
  - We will take 5 minutes for the survey.
  - Celebrations to follow. 😊



# Decision & Next Steps

Decision: Our committee has unanimously recommended NGSS FOSS for the K-5 Science Adoption.

Next Steps:

- We have formed a subcommittee to manage the integration of engineering materials.
- April 20: Provide recommendation to the Instructional Materials Committee.
- May 2: Present to School Board for approval.



**Thank You!**



**What a great team!**



# Members in Attendance

- Vicki Capestany
- Colette Graybeal
- Anna Hatlestad
- Amy Roongsang
- Dawn Redemann
- Ashley Richardson
- Tara Gray
- Rebecca Mayes
- Patrick Brown
- Susan Webster
- Greg Bianchi
- Cheri Bortleson
- Kristen LaPrade
- Mariano Lizano-Alpazar
- Maria Manca
- Nicole Shimizu