

Elk Grove Unified School District **Board of Education Meeting**

December 11, 2018

S.D. Bechtel Grant: ***Math Generation Report***

Mark Cerutti, Deputy Superintendent, Education Services & Schools

Sue Larson, Executive Director, Education Services

Anna Trunnell, Director, Curriculum/Professional Learning

Julie Villeneuve, K-6 Math Program Specialist, Curriculum/Professional Learning

Dianne Willson, 7-12 Math Program Specialist, Curriculum/Professional Learning



Today's Objective

- Overview of the Grant
- Implementation
- Data
- Lessons Learned
- Next Steps

Overview of the Grant

- S.D. Bechtel Foundation Grant – 2013-2018
 - 10 districts (Long Beach, Oceanside, Santa Ana, Garden Grove, Dinuba, Sanger, Elk Grove, Sac City, Oakland, San Francisco)
- 240 Math Professional Learning Community (PLC) leaders from K-8 (51 schools)
 - One lead per grade level (K-8) per site
 - 1 Mandatory PLC meeting and 1 Optional PLC meeting per month
- Funding of \$5,999,949.00 million over 5 years for implementation of the Common Core State Standards in Mathematics

Leadership & Support

- Leadership Team
 - Curriculum/Professional Learning (lead)
 - Elementary Education
 - Secondary Education
 - Research & Evaluation
- Planning/Implementation Team
 - Curriculum/Professional Learning
- Partners
 - S.D. Bechtel Foundation
 - California Education Partners
 - West Ed
 - Sacramento County Office of Education (SCOE)
 - California State University, Sacramento (CSUS)
 - UC Davis Math Project (UCDMP)
 - Silicon Valley Math Initiative (SVMI)
 - Sacramento Educational Cable Consortium (SECC)



Scope of Work

- 2-3 PD release days per grade level per year
 - PLC's, student discourse, and content training for K-8 teachers
- 1-2 site-based release days/year
 - Administrators and teacher leaders (grade level spans)
 - PD focus chosen by site from list provided
- 2-3 after school trainings for PLC leaders/year
 - Training included content, PLC facilitation skills, and student discourse
- Professional development for Principals
- Saturday Seminars

Year 1

Professional development:

- How to facilitate a PLC
- Key elements of PLCs
- Implementation of Core 4 strategies to activate the Standards for Mathematical Practice (SMPs)
 - Strategies are discussed during site PLC meetings

Partnerships:

- SCOE
- CSUS
- SECC

Year 2

New Professional Development

- Lesson design
- DuFour (Solution Tree) training

Continuing Professional Development

- PLC facilitation
- Key instructional strategies
- Standards for Mathematical Practice (SMPs)

Continuing Partnerships:

- SCOE
- CSUS
- SECC

Year 3

New Professional Development

- Accountable Talk Moves
- Lesson Study
- Content - Numbers in base 10; proportional reasoning

Continuing Professional Development

- PLC facilitation
- Key instructional strategies
- SMPs
- Lesson design
- DuFour (Solution Tree) training

Continuing Partnerships:

- SCOE, CSUS, SECC

Year 4

New Professional Development

- *5 Practices for Orchestrating Mathematical Discussions*
- Site-base PD on Number Talks and Productive Struggle

Continuing Professional Development

- PLC facilitation
- Key instructional strategies
- SMPS
- Lesson design
- Accountable Talk Moves
- Lesson Study
- DuFour (Solution Tree) training

New Partnerships:

- Silicon Valley Math Initiative (SVMI)
UC Davis Math Project (UCDMP)

Continuing Partnerships:

- SCOE, CSUS, SECC

Year 5

New Professional Development

- Site-Based PD on Talk Routines and Productive Struggle
- Grade-level content and the use of manipulatives

Continuing Professional Development

- PLC facilitation
- Key instructional strategies
- SMPS
- Lesson design
- Sustainability

Continuing Partnerships

- SCOE, CSUS, SECC, SVMI, UCDMP

Math Generation Expenditures

	Math Generation Budget		
	Money allocations in years 1-4	Allocations in year 5	Carry over Funds for Current Year
Personnel	\$1,000,000 yearly	\$760,000	\$78,000
Consulting Fees	\$240,000 - \$150,000	\$78,000	0
Convening travel	\$12,000 - \$18,000	\$16,000	\$10,000
Printing and Publications	\$7,000 - \$15,000	\$20,000	0
Supplies	\$3000 - \$5000	\$6000	0
Indirect costs	\$50,000	\$50,000	\$7000
Conferences and travel	\$10,000 - \$40,000	\$64,000	\$33,000

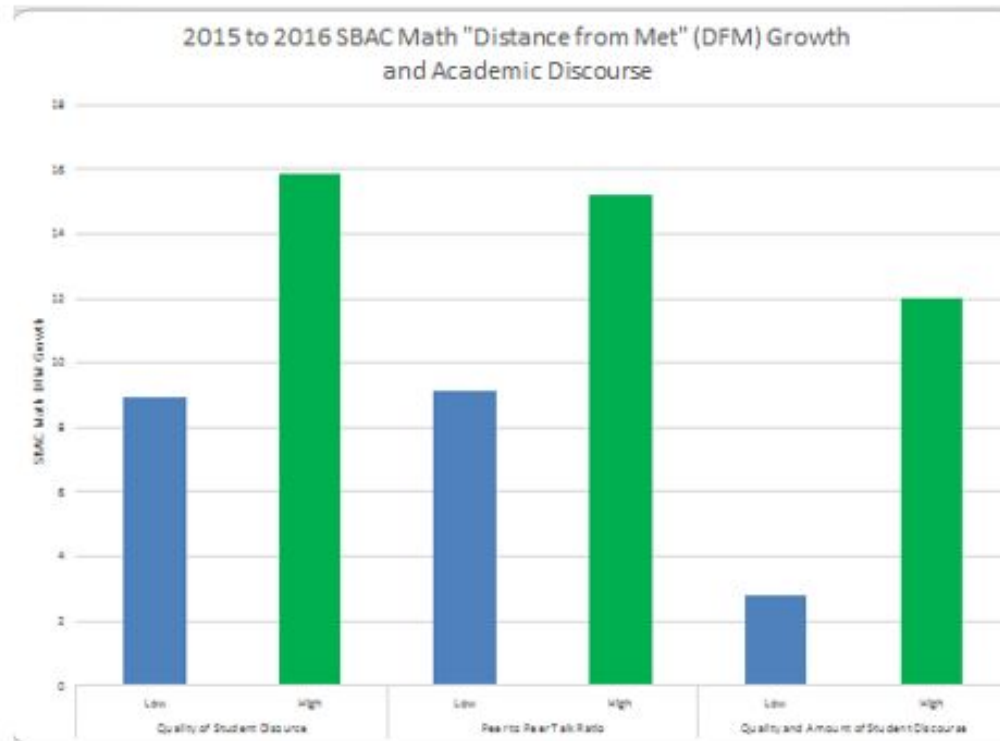
PLC Attendance Data

- Mandatory PLC site-based meetings
 - 2013/2014 – 28% attendance
 - 2014/2015 – 90% attendance
 - 2015/2016 – 100% attendance
 - 2016/2017 – 101% attendance
 - 2017/2018 – 100% attendance
- Optional PLC site-based meetings
 - 2013/2014 – 19% attendance
 - 2014/2015 – 35% attendance
 - 2015/2016 – 70% attendance
 - 2016/2017 – 69% attendance

Student Discourse Data

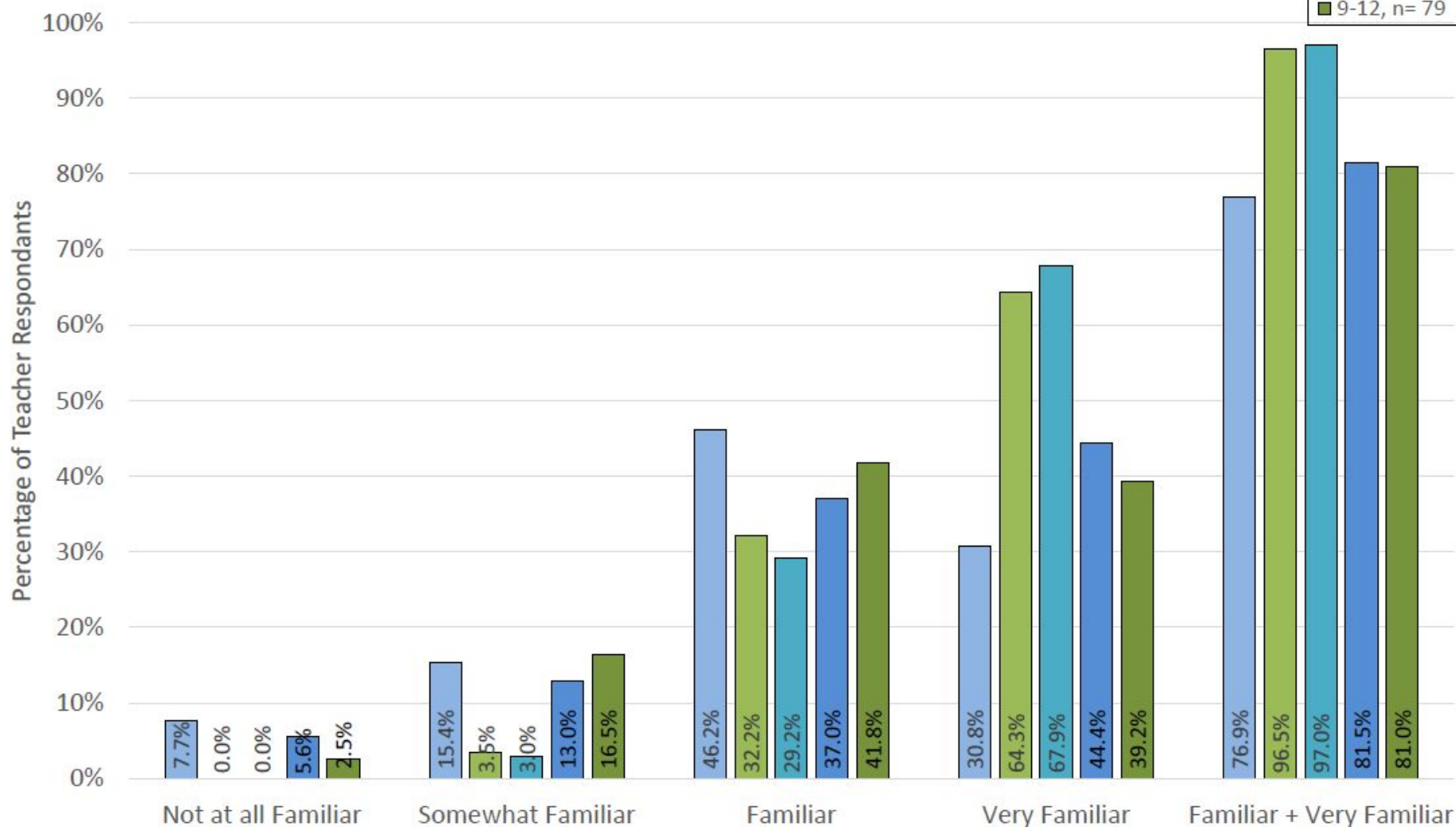
- Quality of Discourse
 - Fall 2015: 1.5, Spring 2016: 2.5
 - Fall 2016: 2.1, Spring 2017: 2.8
 - Fall 2017: 2.4, Spring 2018: 2.6
- Quantity of Discourse
 - Fall 2015: 22%, Spring 2016: 32%
 - Fall 2016: 19%, Spring 2017: 34%
 - Fall 2017: 32%, Spring 2018: 29%

Student Discourse Data



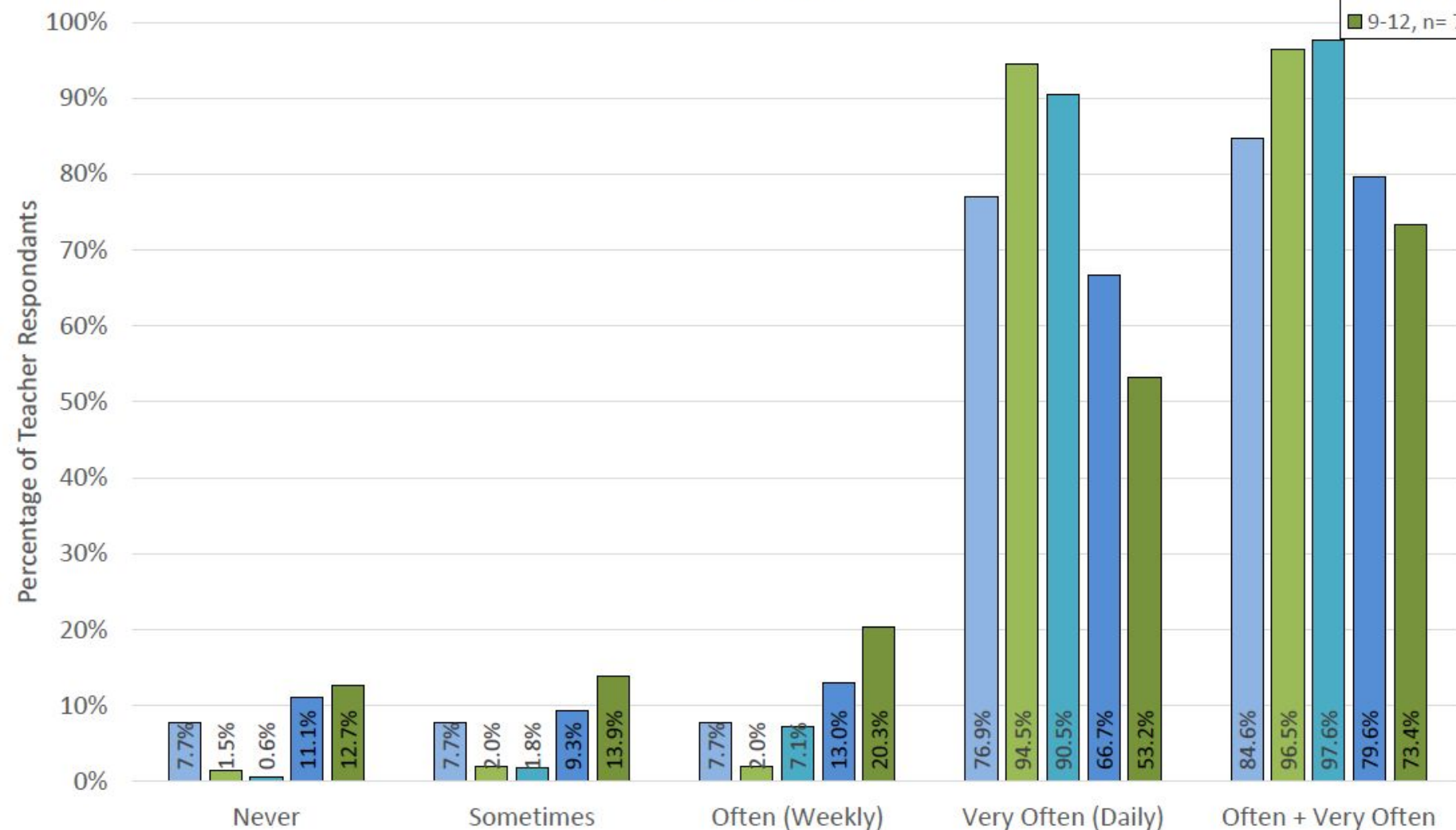
Math-California Common Core State Standards 2017-18 Teacher Familiarity by Grade Span

PK/TK, n= 13
K -3, n= 199
4 -6, n= 168
7-8, n= 54
9-12, n= 79



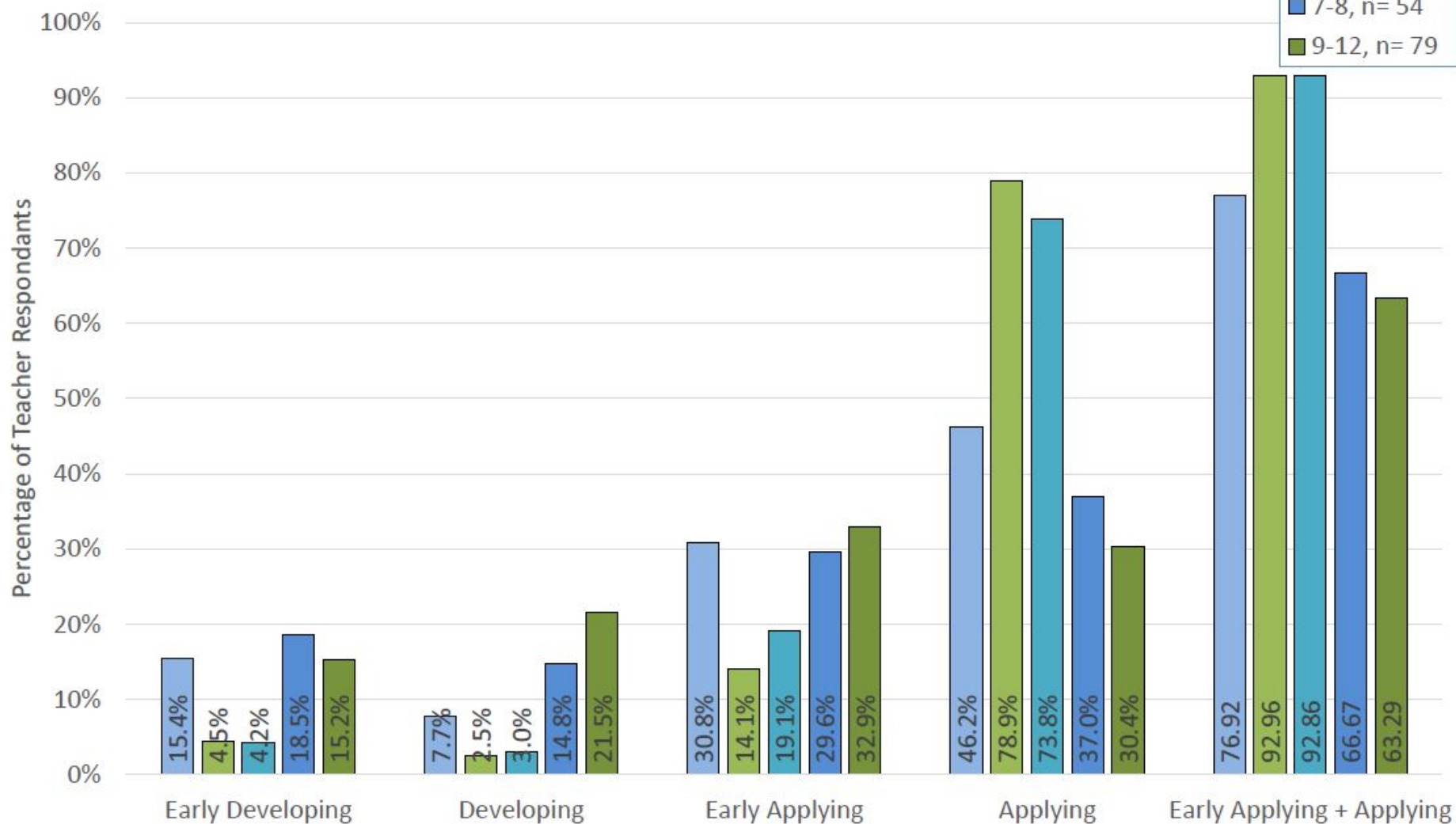
Math-California Common Core State Standards 2017-18 Teacher Application by Grade Span

PK/TK, n= 13
K -3, n= 199
4 -6, n= 168
7-8, n= 54
9-12, n= 79



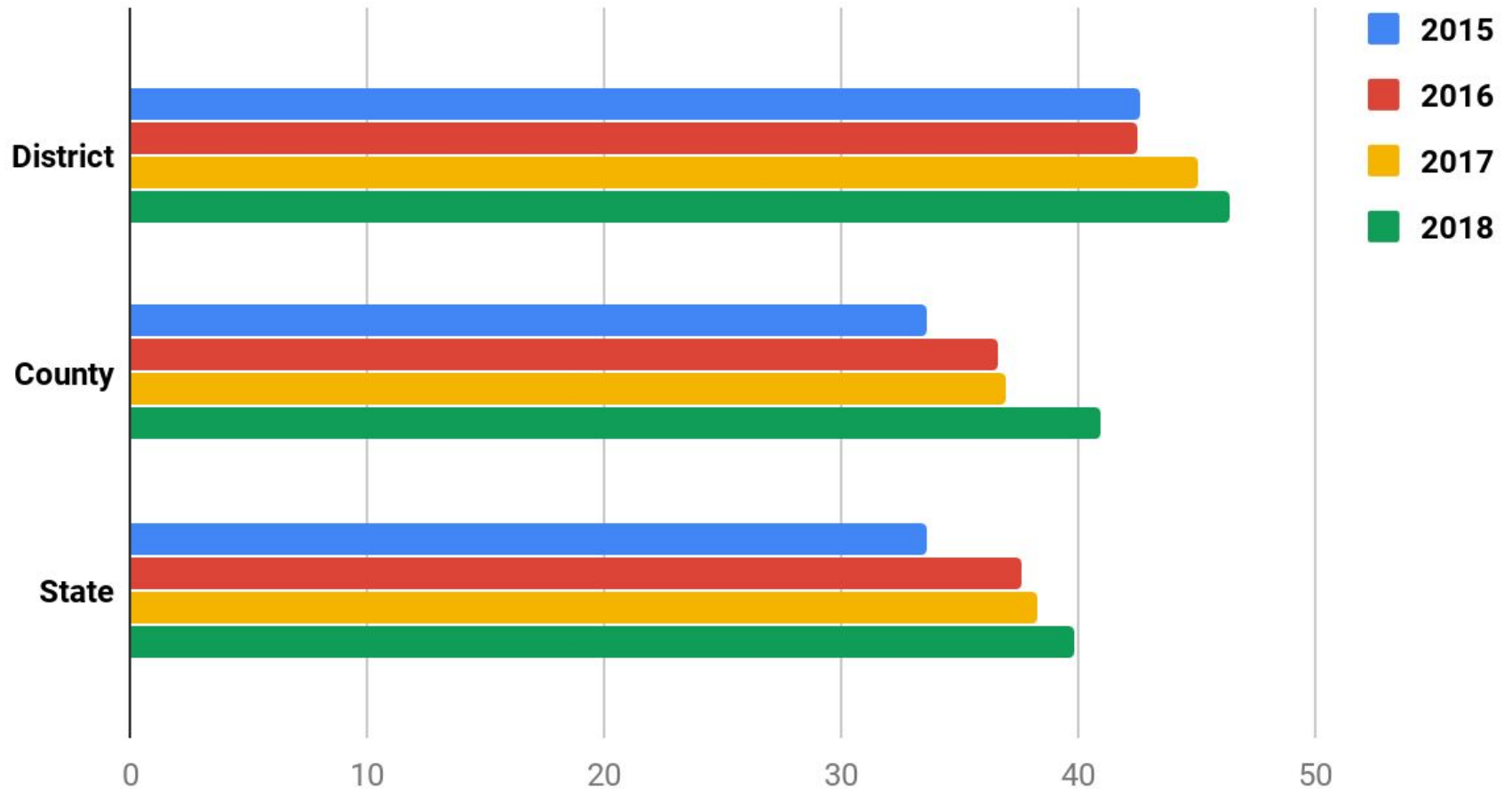
Math-California Common Core State Standards 2017-18 Teacher Current Level of Implementation by Grade Span

- PK/TK, n= 13
- K -3, n= 199
- 4 -6, n= 168
- 7-8, n= 54
- 9-12, n= 79



CAASPP - Mathematics, Grades 3-8

% Standards Met + Standards Exceeded



What have we learned?

- Have a strong, consistent team to plan and guide work
- Provide explicit focus on key elements of a PLC
- Follow up at the site level essential for sustained growth
- Be attentive to mindset (admin, teachers, and students)
- Include site and district office admin from the beginning
- Refine tools for data collection and info sharing
- Collaborate with other districts; it's invaluable
- Share our learning with others through presentations at state and national conferences

Sustainability

What will be the same in 2018 – 2019

- Julie Villeneuve will continue to serve as the K-6 Mathematics Program Specialist.
- Dianne Willson will continue to serve as the 7-12 Mathematics Program Specialist.
- Coaches will continue to support mathematics.
- Partnership with SVMl will continue.
- Productive struggle and discourse in mathematics classrooms will continue to be a focus.
- Site-based professional learning day with a focus on discourse in mathematics will continue.
- New discourse cohorts.
- New to Go Math trainings in the fall.
- Continue with the Math Generation Name.

What will go away in 2018-2019

- Mandatory Math Generation PLC meetings will end.
- We will no longer have stipends for PLC leaders or funds to release PLC leaders for trainings.

Next Steps - Elementary Math

- Continue site release days focusing on questioning strategies and modeling in mathematics, with the development of a site implementation plan
- After-school PD by grade level, deepening content understanding of the major clusters
- Create new discourse cohort
- **Focus on writing in Mathematics**
- Continue partnership with SVMl
- Review # of minutes each school designates for daily math instruction

Next Steps - Secondary Math

- Provide MS and HS Release Days focusing on SBAC Claims 2-4 (Problem Solving, Communicating Reasoning, Modeling and Data Analysis)
- Continue Summer Institute and ongoing PL
- Continue HS Improvement Collaboration Cohort, 2018 - 2021
- Continue partnership with SVMII
- Create common targets and success criteria
- Review # of minutes each school designates for daily math instruction

Next Steps - Continue Collaboration

- Continue attending Math in Common Collaborations and opt-ins for two more years, per S.D. Bechtel Foundation funding (for travel only)
 - New team makeup:
 - CPL: Anna Trunnell, Julie Villeneuve (lead), Dianne Willson, Pat Gibson, Doug Mitzel, Kami Cadeaux
 - Elementary Ed: Yvonne Wright
 - Principals: Richard Wall, Lynne Mayer
- Continue the new HS Improvement Collaboration Cohort
 - New team makeup:
 - Secondary Ed: John Dixon
 - CPL: Dianne Willson (Lead), Ellen Byron, Nick Freathy, Francesca Reinhard
 - Site-based admin/leaders: Erik Swanson, Rudy Ortega, Jr., Mark Zalunardo

End of Year/Grant Video



THANK YOU to Our Implementers!

- Mark Cerutti
- Tina Penna
- Donna Cherry
- Anna Trunnell
- Dr. Tony Limoges
- Bob Roe
- Mark Freathy
- Cara Kopecky
- Geri Keskeys
- Jeremy Hinshaw
- Julie Villeneuve
- Dianne Willson
- Pat Gibson
- Doug Mitzel
- Kami Cadeaux
- Kathy Roemmele
- Fran Gibson
- Deb Stetson
- 240 PLC Teacher Leaders
- K-8 teachers of math



Questions?