

## Math Collaborative

The Math Collaborative leverages collective expertise to support effective implementation of college- and career-ready math standards. The Math Collaborative focuses specifically on implementation of college- and career-ready standards, mathematics curriculum, standards review, and high-quality assessments.

The Math Collaborative offers three in-person meetings that are supplemented periodically by online meetings and webinars that sustain and extend the work. State members who join the Math group include Mathematics Directors, State Supervisors of Mathematics, Elementary Mathematics Specialists, Director of Assessment Development, and Elementary Mathematics Specialists. The opportunity to bring together state math leaders is crucial to the advancement of math in all states and ensuring that access to math and high-quality math instruction occurs in an equitable way. Although each state has unique challenges, the opportunity to talk and brainstorm together advances instruction, practice, and math understanding for students. Engagement with experts in the field of math is a regular part of meetings.

### 2017-2018 Achievements:

In the 2017-2018 program year, Math Collaborative members met with a series of national experts and engaged with other CCSSO groups in cross-collaborative work. Examples include the following:

- **Guest Speakers**

- Ted Coe, *Director of Mathematics, Achieve*
- Steve Leinwand, *Principal Research Analyst, American Institutes for Research (AIR)*
- Michael Feder, *Senior Policy Advisor, BOSE Public Affairs Group*
- Sol Garfunkel, *Executive Director, Mathematical Contest in Modeling (COMAP)*
- Eli Luberoff, *CEO, Desmos*

- **Cross collaborative work**

Below are the joint sessions, webinars, and collaborative work Math led with other CCSSO groups in the 2017-18 membership year.

- Joint session with Early Childhood Education (ECE) and English Learner collaboratives: “Early Math for Dual Language Learners for PreK to Grade 3”
- Joint Session with Formative Assessment for Students and Teachers (FAST) and Assessing Special Education Students (ASES) collaboratives: “Formative Assessment and Equitable Mathematics Classrooms: Probing the Intersection”
- Joint session with Science collaborative: Panel Discussion on STEM Education
- Webinar with English Language Arts (ELA) collaborative: Webinar focusing on the changes states have made in the standards

## 2018-2019 Goals:

CCSSO believes that it is incumbent on states to set high expectations for student success by creating opportunities and removing barriers. Math is working towards this vision by leveraging its state member's collective expertise to support effective implementation of college- and career-ready math standards.

- Learn from experts and researchers in the field as well as other state teams to better connect state efforts to support educators and the implementation of high standards in the classroom.
- Offer opportunities for professional learning guided by nationally recognized experts in mathematics.
- Discuss the role of equity in the state agency and in math classrooms. Using the [Leading for Equity](#) report as an anchor, Math Collaborative participants will explore ways the SEA can lead and support all students.

## Spotlight on Equity

A focus on equity is central to CCSSO's 2017-2020 strategic plan and our work with our members. CCSSO and state chiefs are committed to each child—regardless of background—graduating ready for college, careers, and life. In 2017, CCSSO and the Aspen Institute released [Leading for Equity: Opportunities for State Education Chiefs](#), which set forth ten commitments and a series of actions state chiefs can take to advance equity. Each of CCSSO's collaboratives is a venue for working with national experts and collaborating with peer states to identify concrete strategies for advancing relevant commitments found in the report. Equity will play a major role in the agenda of the collaboratives over the next membership year. Examples of equity commitments from [Leading for Equity](#) the Math collaborative addresses through its work are:

- **Equity Commitment Number 3, Part A)** Include measures of proficiency and progress and growth in the accountability system.
- **Equity Commitment Number 6, Part A)** Advocate for increased funding for more children to attend high-quality pre-K.
- **Equity Commitment Number 7, Part G)** Ensure students with disabilities and English learners have access to accommodations in instruction and assessment.

## Biography of Advisor

**Ashley Cheung Dooley** is Program Manager at the Council of Chief State School Officers (CCSSO). She works with state educational agencies to implement effective policies around high quality instruction and standards based instruction. Her project topics range from supporting early childhood instruction, creating infrastructure to incentivize high quality instructional materials to understanding the state role in supporting students who are historically below grade level. She is passionate about issues surrounding equitable access and opportunities for all students and supports that states can take to create equitable systems for all students. Prior to working with the CCSSO, Cheung Dooley worked with the Alliance for Excellent Education on their advocacy and policy team. Cheung Dooley partnered with Teachers Without Borders helping develop indicators and metrics to quantify the impact of a girls' earthquake science program to assess the preparedness of communities in earthquake prone areas. Cheung



Dooley has also worked with Resources to Inspire Students and Educators (RISE) on comparative impact evaluations of two enrichment programs and formulated recommendations to help link more closely program content and goals. She received her MPP with a concentration in education and social policy from the Trachtenberg School of Public Policy and Public Administration at the George Washington University and her undergraduate degree from University of California, San Diego.

**CCSSO Liaison:**

**Teresa Mooney** is a Program Associate on the College- and Career- Ready Standards team at CCSSO. In her role, she supports state standards implementation, including initiatives that promote the use of high quality instructional materials and open educational resources. Teresa previously worked as a teacher in both traditional public schools and charter schools in Texas and California. She is a graduate of UCLA and the Harvard Graduate School of Education.

**2017-18 State Members:**

AZ, DoDEA, HI, ID, IN, IA, KS, KY, ME, MD, MI, MO, NE, NC, OH, SD, UT, WA.

**2017-18 Industry Partners:**

Desmos, EdReports, Measured Progress, MetaMetrics, Texas Instruments

