CME GROUP FOUNDATION



Sparking System-wide Change to Help Students from Cradle to Career

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CME Group Foundation strives to empower future generations through education, equipping today's students to meet tomorrow's challenges.

They will shape the future of the world's most important industries – including our own – so we give them the tools they need to achieve their full potential.

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Mission

CME Group Foundation strives to empower future generations through education by:

Ensuring young children become proficient at math at the appropriate grade or developmental level;

Providing K-12 students with computer science and financial education;

Using technology to personalize learning and improve student outcomes; and

Helping low income students succeed in college and career.



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Early Math Education Initiative

Rationale

- 2008 research indicated preschool children's knowledge of math predicts later school success into high school and is a better predictor of later reading achievement than early reading skills.
- An NSF report indicated preschool and elementary teachers math content and pedagogy knowledge was quite limited.

Began funding in 2008 and launched an Initiative in 2010. The Foundation has invested $10 million through 2019 in:

- Professional Development for Teachers of Young Children
- Family Engagement in the Math Learning of Young Children
- Influencing Early Childhood Mathematics Policies
- Early Childhood Teacher Preparation in Mathematics

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Early Math Education Initiative – Theory of Change

- If early childhood teachers improve the quality of their early math instruction by increasing their content knowledge and confidence in teaching it in engaging, developmentally appropriate ways,
- If early childhood teachers have the necessary tools to do so,
- If parents/caregivers of young children become knowledgeable in introducing mathematical concepts to their children and confident in their ability to do so, and
- If local education policymakers and university education schools deans and faculty understand the importance of early math education, the nature of early math instructional practices and their integration into the early education system,

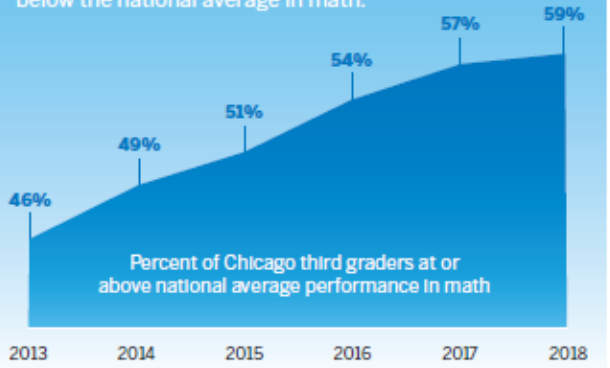
Then Illinois's young children will become proficient at their grade level and be prepared for success in mathematics later in their education

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CME Group Foundation's 2017-2018 Early Math Initiative

Why we continue to invest in early math

While progress has been made, 4 in 10 third graders in Chicago are still performing below the national average in math.



Our commitment over the years

$8.9M invested since 2010

Our investment this school year



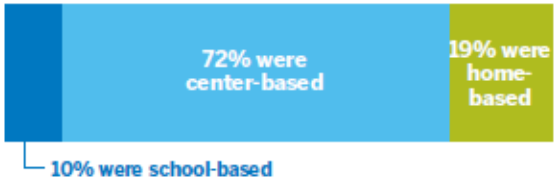
Our grantees trained **664** educators **in-person** through workshops, courses, and coaching sessions.



92% of the educators who trained in-person **reported improvement** in multiple areas such as greater **confidence** in teaching early math, improved **pedagogical knowledge**, enhanced early math **instructional practice**, and greater awareness of how to **incorporate math** into their overall practice.

To expand accessibility of early math professional development opportunities to a broader range of educators, our grantees created high-quality online math courses.

3,259 educators were trained **online** reaching mostly center-based and home-based providers.



Educators trained online are showing statistically significant improvements in their attitudes, beliefs, and knowledge about early math.

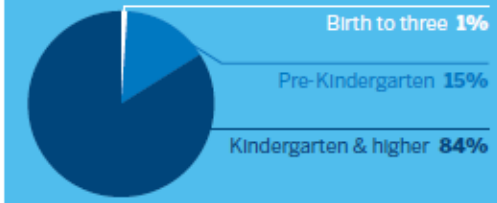


Our grantees supported **530 families** to engage in early math learning with their children & designed 3 parent-focused math videos to help parents support their children's math development.

Our grantees helped grow the early math field through the **Promising Math Conference**, which was attended by 82 participants from 21 states.

- **95%** said the conference was relevant to their work.
- **87%** learned something new.
- **81%** met someone with whom they will likely collaborate.

In 2017–2018, the Early Math Initiative reached **13,000+ children**



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Data sources: Arabella Advisors compiled this dashboard using data provided by the CME Group Foundation's 23 early math grantees. All data is from the 2017–2018 school year. Data about Chicago Public Schools comes from its Northwest Evaluation Association Measure of Academic Progress results. For questions about these data contact Kheira Issaoui-Mansouri at kheira.mansouri@arabellaadvisors.com.



To learn more about our grantees, please visit cmegroupfoundation.org or contact a member of our team.

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