

Parents Meet Math

Erikson Institute
Chicago, IL
Friday, November 15, 2019





Your Experience

If you could describe your experience as a math student in one word, what would it be? Why?

What's a specific math memory you have from school?

If you could change something about your math experiences as a child, what would it be? Why?

If your adult self could tell your child self something about math, what would you say? Why?



If you could describe your experience as a math student in one word, what would it be? Why?

Mixed

What's a specific math memory you have from school?

Multiplication Races

Your Experience

If you could change something about your math experiences as a child, what would it be? Why?

Appropriate challenge at every level

If your adult self could tell your child self something about math, what would you say? Why?

Fixed Mindset

"I loved math because I was good at it. I was always the first to finish and my teachers would tell my parents I was really smart."

"The thought of math class still makes me cringe. I always only half understood what I was doing, so I faked my way through and did as much extra credit as I could."

"I knew I needed to do it, so I did it. I never wanted to let my parents or my teachers down."

"I did poorly as a student; I preferred goofing around with my friends. I'm a more successful adult than I was a student."

"For me, math class was always okay; sometimes it was fun and other times it seemed like a waste of time, but I survived."

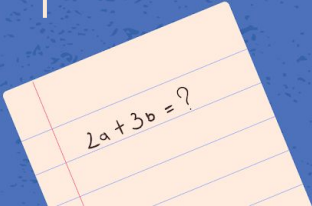




Parents' Reality vs. Current Research 01

02 Making Believers

Ongoing 03 Support


$$2a + 3b = ?$$



PARENTS' REALITY

“Math Brain” | fixed mindset
(Boys vs. Girls)

Teacher-centered | “Sit and get”

Performance focused:
speed and correct answers

Procedural | Memorized steps

Independent | seated in rows

CURRENT RESEARCH

Everyone can achieve math; growth mindset

Student-centered

Learning focused: deep understanding and flexible thinking

Thinking through to understand and solve using strategies and models

Independent and Collaborative

But change is hard...



1
2
3

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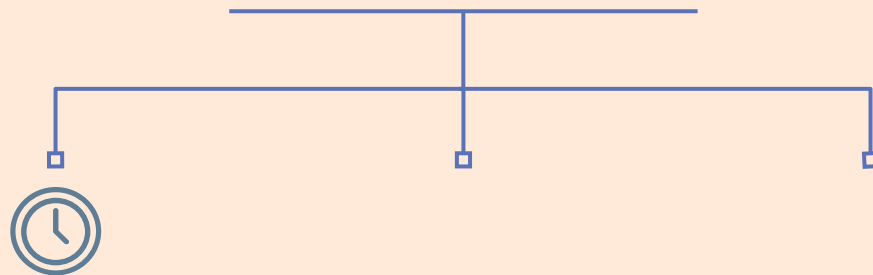
"I did poorly as a student; I preferred goofing around with my friends. I'm a more successful adult than student."

"For me, math class was always okay; sometimes it was fun and other times it seemed like a waste of time, but I survived."

"I turned out okay."



Making Believers



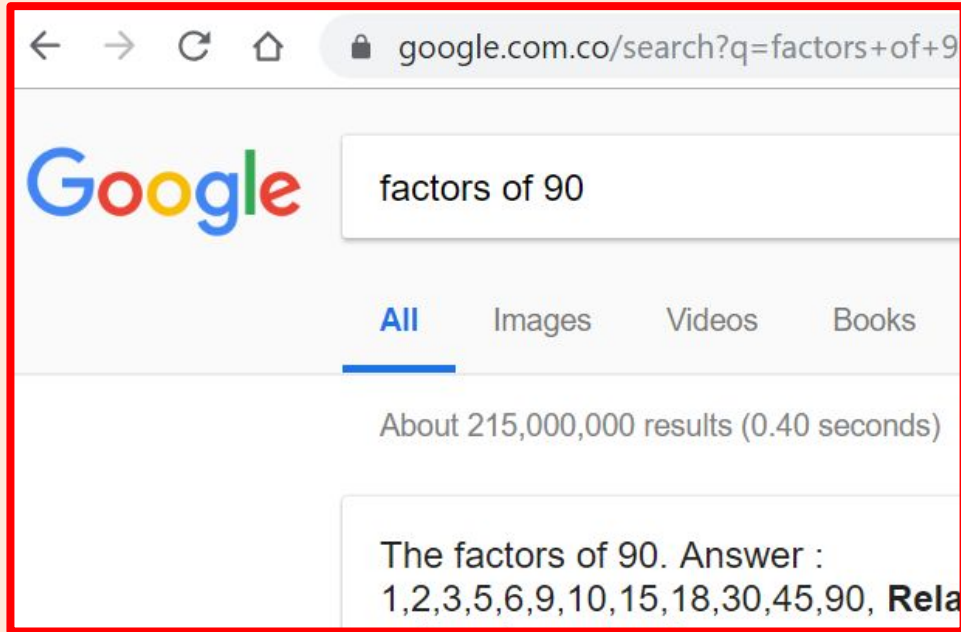
Reality Check: Then vs. Now

Research on the brain

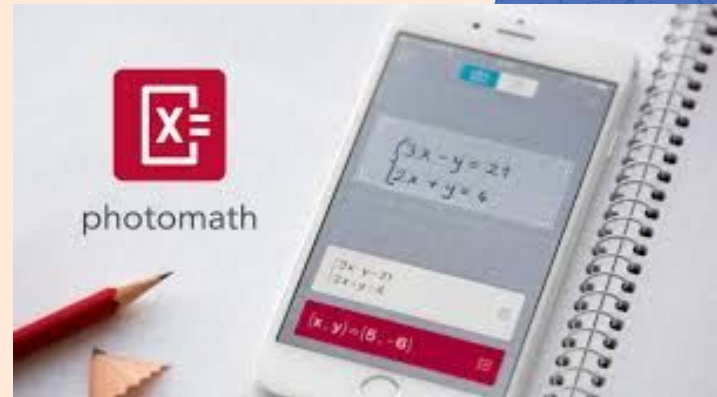
Role of technology

Career readiness

Technology



[Video](#)

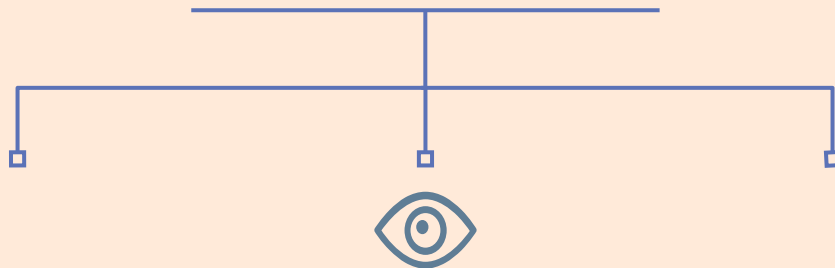


Top 10 Skills Most Desired by Employers by 2020



10. Cognitive Flexibility
9. Negotiation Skills
8. Service Orientation
7. Judgment and Decision-Making
6. Emotional Intelligence
5. Coordinating with Others
4. People Management
3. Creativity
2. Critical Thinking
1. Complex Problem-Solving

Making Believers



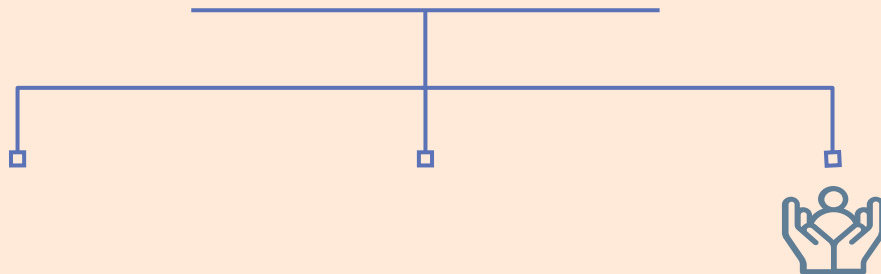
Seeing is Believing

Hands on
experiences

Classroom visits



We're in this Together



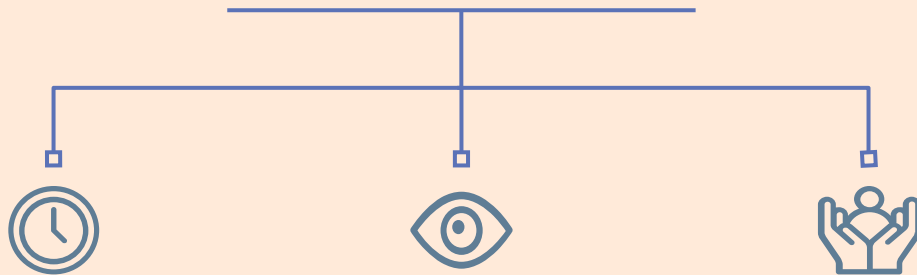
Ongoing Support

Newsletters

Workshops

Open doors | Communication

Embrace the Change



Reality Check: Then vs. Now

Research on the brain
Role of technology
Career readiness

Seeing is Believing

Hands on experiences
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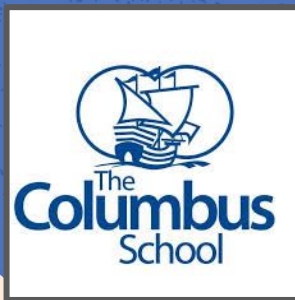
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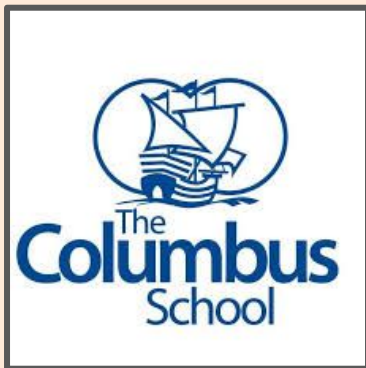
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Sarah Kinney

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**Private
K4-12**

**86% Colombian Student Population
Colombian vs. Foreign Staff
Common Core State Standards**