

# EL Education's Math Toolkit

## What? Why?

In 2018, EL Education launched its Math Toolkit as a way to support schools and school designers in mathematics education at EL partner schools. Additionally, the toolkit aims to begin a dialogue within the organization around mathematics teaching and learning. Finally, the toolkit can begin to house recommended practices (and examples of them) from schools across the network as a collective resource.

Find it here!

<https://sites.google.com/eduquatellc.com/elmathematicstoolkit/home>

## Three Components:

<a href="#"><u>Where We Fit</u></a>	Research collected and written in 2017 around EL Education schools and the national landscape of mathematics education in the United States.
<a href="#"><u>Curricula</u></a>	An analysis of the alignment of core and supplemental curricular tools to EL Education Core Practice 15.
<a href="#"><u>Recommendations</u></a>	Ten recommendations with associated tools for supporting schools' chosen goals.

## *Where We Fit*

EL Education research conducted in 2017 focused on:

- Curricula
  - EL Education Partner School Trends for Core and Supplemental Curricula
  - National Trends for Core Curricula
- Structures, Practices, and Professional Development
  - EL Education Partner School Trends
- National Expert Recommendations

Can be viewed as a slide deck or formal research report in viewable google doc.

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## *Curricula*

### Core Curricula:

Use the Core Curricula Overview resource to gain:

- An overview of curriculum tools including
  - Which EL Education schools reported using each tool in the 2016-2017 School Year
  - The location of and cost (in many cases) of each program
  - Links to resources or research regarding the tool
  - An analysis of alignment and lack of alignment with EL Education Core Practice 15
    - A - Planning for Math Instruction
    - B - Teaching Conceptual Understanding
    - C - Teaching Foundational Math
    - D - Teaching Problem-Solving Skills
    - E - Creating a culture of Mathematical Literacy
    - F - Assessing Mathematics

## Supplemental Curricula:

Use this resource to gain:

- An overview of supplemental curriculum tools including
    - Links to resources or research regarding the tool
    - An analysis of alignment and lack of alignment with EL Education Core Practice 15
      1. Facts & Fluency/ Foundational Math (CP15 C)
      2. Curriculum Supplement/ Problem Based Tasks (CP15 B, D Tasks)
      3. Benchmark pieces: Assessing Mathematics (CP15 F)
      4. Opportunities for differentiation (CP15 A, E)
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## Recommendations

Compiled by high achieving schools and experts in the field as a ten step process for growing mathematics instruction in a school. Ideally meant to be started at step 1 and moved on as school team and school designer deem ready.

1. *I'm not a math person: [Building a Collective Vision and Growth Mindset](#)*
2. *Does anyone know what to do: [A Math Culture Lead for the School](#)*
3. *We're never on the same page: [School-wide Frameworks, Structures and Language](#)*
4. *There's too much to fit in: [Sequencing Topics, Capacities, and Assessments](#)*
5. *That's not the way I was taught: [Building Teacher Capacity—Pedagogy](#)*
6. *I don't actually know this stuff myself: [Building Teacher Capacity—Content Knowledge](#)*
7. *But I need to explain it to them: [Student Led Discourse](#)*
8. *But I can't reach every kid: [School-wide Structures for Differentiation](#)*
9. *My students don't take responsibility for their learning: [Student-Engaged Assessment in Math](#)*
10. *But how do we make this matter to kids?: [Sustaining and Deepening](#)*