



**COLORADO**  
Department of Education

---

# Are Academic Interventions Catching Students Up or Leaving Them Behind?

Susan Barrett and Joanna Bruno

April 8, 2022

# Introductions

# All Means All



We've come to better understand the extent to which **remediation prevents many students from accessing grade-level work**—especially students of color, students with disabilities, students whose home language is not English, and students from low-income families or rural communities. Instead of waiting until students master all concepts from previous grades before moving on, **schools should accelerate access to grade-level work while providing targeted support on foundational concepts.**

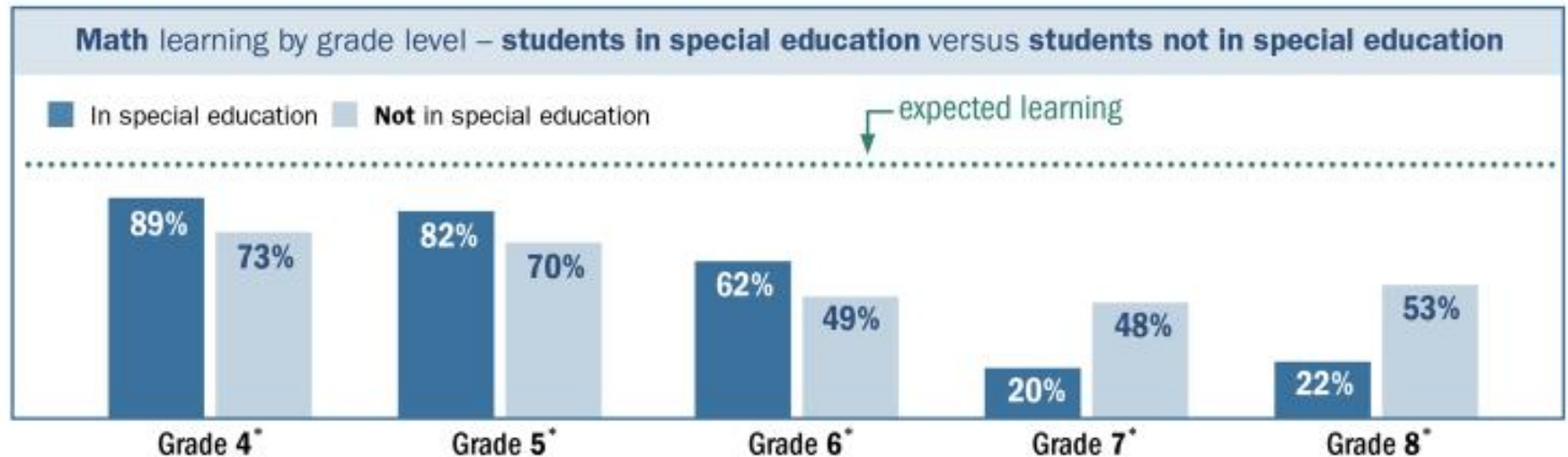






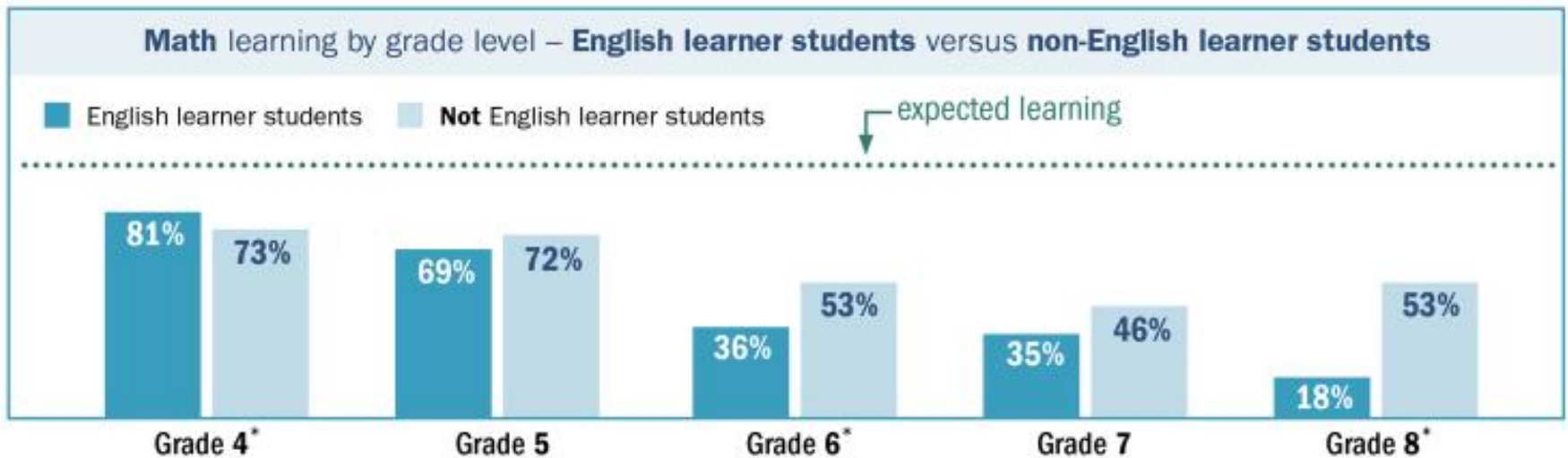
# Impact of Pandemic on Learning

In grades 7 and 8, **students in special education experienced more unfinished learning in math** than did students who were not in special education, after adjusting for other factors.



\* Estimated difference in learning between students in special education and students not in special education was statistically significant at  $p < .05$ .

In grades 6 and 8, students who were **English learners experienced more unfinished learning in math** than did students who were not English learners, after adjusting for other factors.



# What Does Research Say?

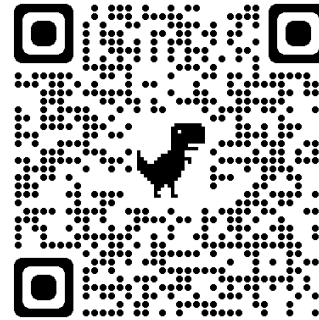


- Science of Learning & Development principles apply.
- Unfinished teaching is just as crucial as naming unfinished learning.
- You cannot have students move forward by holding them back.

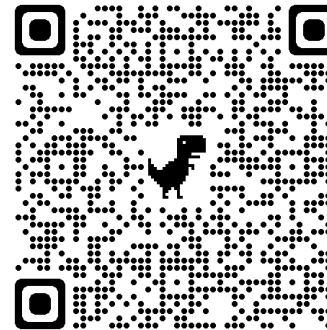


# Unfinished Teaching and Learning Resources to Consider

- Examining Unfinished Learning  
(Institute of Education Sciences)

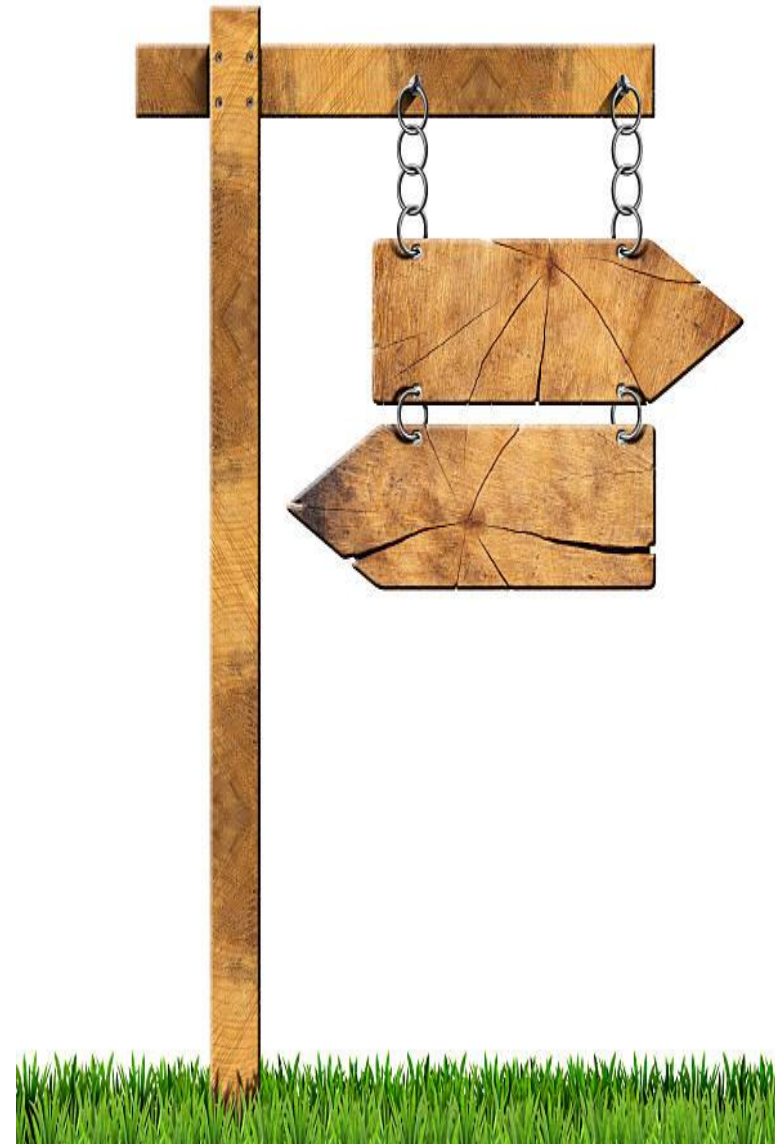


- Why Unfinished Instruction is  
More Accurate and Equitable  
Than Learning Loss  
(UnboundEd)



Why we should accelerate  
rather than remediate ....

<b>REMEDICATION</b>	<b>ACCELERATION</b>
<p>Spending significant time in below-grade level content before moving into new learning</p>	<p>Connecting unfinished learning into the context of new learning</p>
<p>.... covering many objectives or standards from prior grades/units (usually extending to a month or more of instruction) ....</p> <p>.... isolated from grade appropriate learning</p> <p>.... usually with greater than 50% of time on procedural fluency</p>	<p>.... integrating a few lessons from prior grades/units</p> <p>.... Just-in-time to grade appropriate learning (whether in core or extended time)</p> <p>.... always with an appropriate balance of fluency, conceptual understanding, and application work</p>



\* Adapted from *Accelerate, Don't Remediate: New Evidence from Elementary Classrooms*. TNTP, May 2021.

# Effectiveness of Learning Acceleration versus Remediation

- A study from TNTP with schools using ZEARN mathematics
- Classes receiving acceleration struggled 10x less than those with remediation
- Increased percentage in the number of grade-level lessons completed
  - All classrooms: 27% increase
  - Classrooms with high percentages of students of color: 49% increase
  - Title I eligible: 28% increase

Pulled from, Accelerate, Don't Remediate: New Evidence from Elementary Classrooms. (TNTP)





# Key Takeaways...

- Invest in the Infrastructure for Learning Acceleration
  - Adopted **aligned curriculum**
  - Appropriately **train teachers** to implement the curriculum.
- Execute Equitably
  - Provide *instructional support* that fosters all students' persistence with **grade-level learning**.
  - Provide *targeted intervention* in addition to and in service of **grade-level learning**.

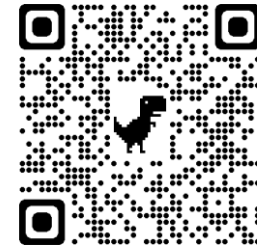


# Acceleration vs. Remediation Resources for Consideration

- Disrupting Barriers to Strong Instructional Scaffolds (TNTP)



- Accelerate, Don't Remediate: New Evidence from Elementary Classrooms. (TNTP)



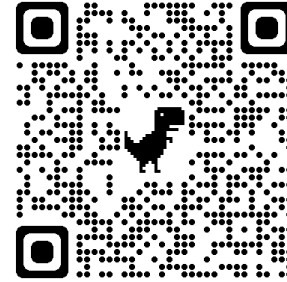
# Research Methodologies to Support Accelerating Learning





# High-Impact Tutoring and Expanded and Extended Learning Opportunities Resources for Consideration

- School practices to address learning loss  
(EdResearch for Recovery)



- Strategies to Solve Unfinished Learning  
(Education Trust)







# Putting Accelerated Learning Into Practice

# University Prep Case Study

University Prep is a public charter network operating two  
schools in North Denver.

**87%**  
qualify for free or  
reduced lunch

**11%**  
have IEPs

## English/Language Arts

CKLA Skills  
Wit and Wisdom

## Math

Eureka Math

## Science

Amplify

## Grade-Level Curricula

# Three Year Acceleration Plan



# U Prep's Acceleration Plan Pillars

## Grade Level is Grade Level

- Continue to use strong existing core curriculum and critical grade-level assessments, delivering grade-level content.

## Rapid Acceleration

- Adopt a small school model (K-1, 2-3, and 4-5) in order to provide tiered support based on anticipated student needs.
- Implement a tutoring program to provide additional academic support to students who need it most.

## Family and Community Partnerships

- Conduct home visits and other events to engage families.
- Create opportunities to share openly and honestly with families about students' progress throughout the year.

# Implementation Focus

## Grade Level is Grade Level

- Every student is getting access to grade-level content every day.

## Rapid Acceleration

- All students have time within the day for acceleration.
- Target students are receiving after-school tutoring.

## Family and Community Partnerships

- Family conferences have been prioritized, resulting in greater family engagement.

- English/Language Arts: Significant acceleration for all grades
  - Ranging from 9%-17% increase from BOY to MOY in percent of students on grade level
  - K-2 students not growing as quickly as 3-5
  - Students below 25% decreased significantly from BOY to MOY.
- Math: Inconsistent acceleration
  - One grade level is accelerating quickly; others are not yet



## Celebrations

- Students are getting experience with grade-level material every day.

## Challenges

- Made an incorrect assumption that K-1 students would need less support.
- Underestimated students' social-emotional needs.
  - Didn't plan well enough for what students would be bringing back into this space with them after 18 months of isolation.
- Teachers were not prepared for rapid acceleration; they needed a clearer vision for what successful acceleration looks like.





## Celebrations

- Finding the right partnerships were what enabled this to succeed.
- Tutoring initiative is prioritized and a senior member of team is leading it.

## Challenges

- Connecting tutoring to the work done in class.
- Providing tutors with specific training and support.



- **Have a strong progress monitoring plan in place.**
  - Know what you will look at to gauge progress and when you'll reflect on it.
- **Have an Implementation Team in place**
  - Empowered to take thoughtful and decisive action as needed to respond to evolving challenges.
- **Keep stakeholders (including school staff) looped in as needed through any adjustments.**
  - Team members
    - have a part in the decision-making OR
    - are able to give input

Case Study- more to come!



# Strategy Guides: A Starting Point

# What are Strategy Guides?



Resources aimed at supporting schools and districts to better understand what research says about common practices that are implemented as part of school improvement efforts.





# Strategy Implementation

## Implementation Guide

Components, and elements within each component, should be implemented sequentially in the following order to increase the likelihood of successful outcomes.

### Core Component 1: Plan to Implement Trauma-Informed Practices

Action Steps	Description
Create a Trauma Leadership Team	School leaders should consider creating a trauma leadership team made up of various stakeholders, including teachers, support staff, families and others, to collaboratively perform a trauma audit, analyze results, set goals and prioritize action steps in the development of an implementation plan.
Perform a Trauma Audit	School leadership teams should understand what procedures and practices are currently in place and what are needed by performing an audit on trauma-informed school systems. Consider the use of the <a href="#">Trauma Responsive Schools Implementation Assessment</a> , adapting the <a href="#">Trauma Informed Care Project's self-assessment</a> for organizations, or considering <a href="#">SAMHSA's questions for implementing a trauma-informed approach</a> in regards to the ten implementation domains.
Set Goals	School leadership teams should set immediate, short-term, mid-term and long-range goals around implementing trauma-informed practices based on results from the trauma audit. Schools leaders and staff should understand that implementing trauma-informed educational practices is a whole school effort. Implementing this level of change is a developmental process and will occur gradually over time.

# Available Strategy Guides

<b>Most Relevant</b>	<b>Also Helpful</b>
<b>High-Dosage Tutoring</b>	<b>Data-driven Instruction</b>
<b>Learning Loss Recovery</b>	<b>MTSS</b>
<b>Trauma-Informed Education</b>	<b>PBIS</b>
<b>Summer School</b>	<b>Coaching</b>

UPrep Case Study Website



CDE Strategy Guides

# Most Important Takeaways

Student Access  
Grade Level  
Content Each  
Day

Productive  
Struggle=  
Learning

Attend to  
Student and Staff  
Social-Emotional  
Needs



203 A: Accelerating Learning: High Quality Tutoring Strategies

11:30 am-12:30 pm

204 A: Accelerating Learning: High Quality Tutoring Strategies

12:45 pm-1:45 pm



# Q & A

Susan Barrett  
Office of School Improvement and  
Planning

[barrett\\_s@cde.state.co.us](mailto:barrett_s@cde.state.co.us)

Joanna Bruno  
Office of Standards and Instructional  
Support

[bruno\\_j@cde.state.co.us](mailto:bruno_j@cde.state.co.us)