

# Best Practices for Cost Effectively Raising Achievements for Struggling Students

NOVEMBER 15, 2016



## **Agenda**

About DMC

**Best Practices overview** 

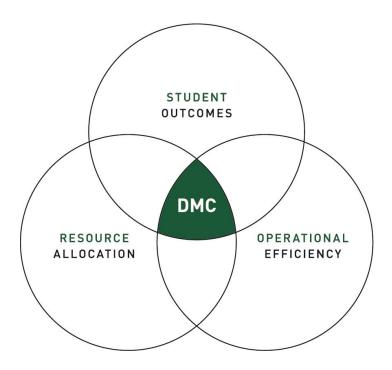
Cost implications of the best practices

Learn more

# The District Management Council (DMC)'s mission is to achieve systemic improvement in public education.

**DMC's Mission** 

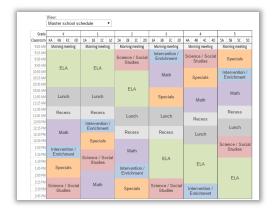
DMC was founded in 2004 to help school districts address their most pressing and important challenges.



DMC membership and client services are underpinned by three key aims: raise student achievement, improve operational efficiency, and allocate resources more effectively.

# DMC helps districts improve and sustain results in some of their biggest challenge areas by leveraging powerful technology tools.

#### **DMC Solutions**





### **Elementary and Secondary Scheduling**

 Scheduling tools that cost-effectively create schedules that promote teaching and learning best practices

### **Improving Special Education**

 Improved effectiveness and cost-effectiveness for special education and other interventions (RTI)

### **Shifting Resources to Support Strategic Priorities**

 More precise general education staffing, aligning federal funds and searching for opportunities to free up resources

#### **Academic Return on Investment**

- Knowing what works, for which students at what cost
- Program reviews

### **Strategic Planning**

- Strategic plan development
- School and district accountability
- Central office redesign

#### Other

- Weighted student funding
- Human capital

**About DMC** 

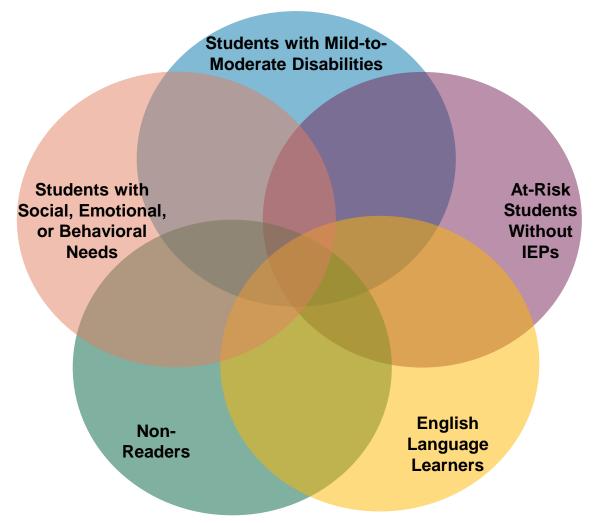
**Best Practices overview** 

Cost implications of the best practices

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### DMC's definition of "struggling students" is intentionally broad.

### **Struggling Students Definition**



### **Common Challenges**

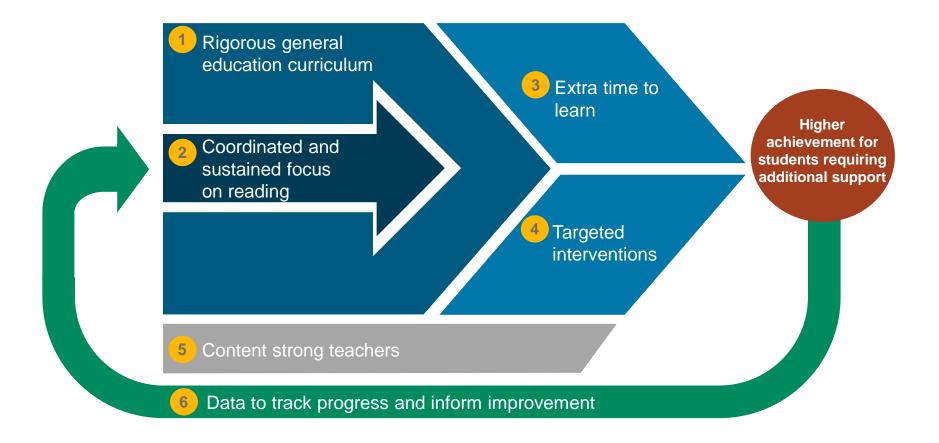
- Many struggle to read and comprehend
- Many have skill deficits from prior grades
- Many require multiple modes of instruction
- Many learn and process information more slowly than their peers

A similar approach for all can be effective and cost-effective.

Note: Students with ASD, severe disabilities, cognitive disabilities or virtually no fluency in English do have more specialized needs.

Six interconnected best practices can help students requiring additional support achieve at high levels in a cost-effective manner.

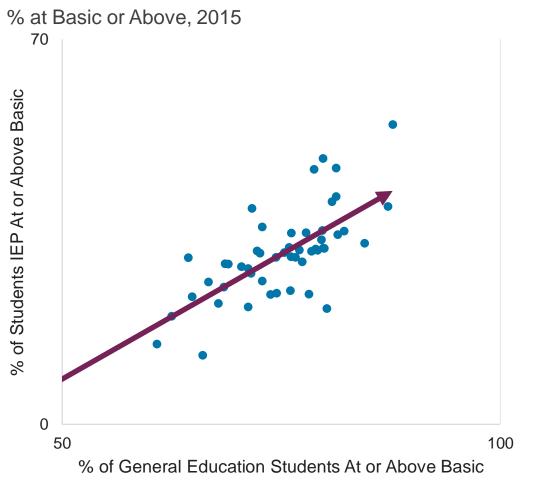
### **DMC Framework for Supporting Struggling Students\***



<sup>\*</sup>Note: Struggling students is defined as students with IEPs for mild-to-moderate disabilities and students who struggle academically, however do not have an IEP.

# A strong general education curriculum helps all students, including students with IEPs.

#### **NAEP Grade 4 Reading Performance by State**



- Higher performance of general education students is related to higher performance of students with mildto-moderate disabilities nationwide
- The same is true for school systems within a state

Source: US Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment

# 10 interconnected best practices can ensure virtually all students read on grade level

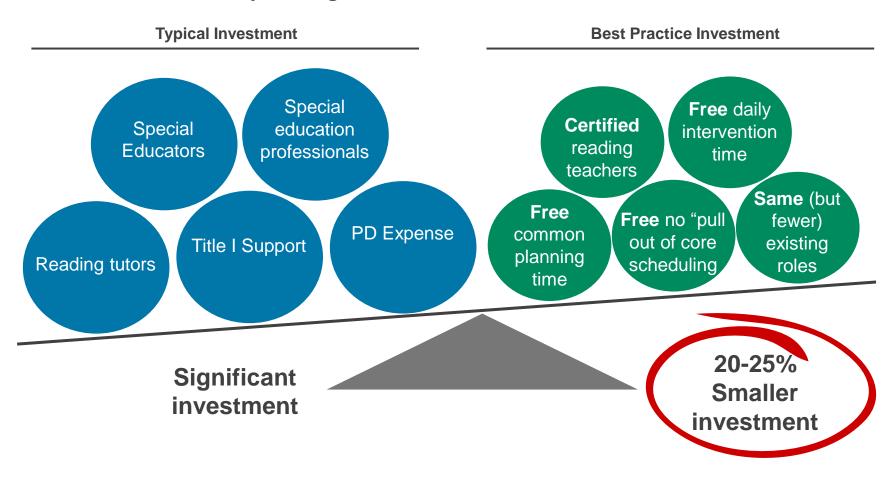
### **Elementary: A System for an Effective Reading Program**

A Clear and rigorous grade-level expectations Standards | B Identification of struggling readers beginning in kindergarten Clearinghouse National Reading Panel & C Frequent measurement of achievement D At least 90 minutes / day of balanced core instruction Core Instruction E Explicit teaching of phonics and comprehension What Works F At least 30 min / day additional time for all struggling readers Intervention G Tight connection of remediation to core instruction **Effective** H Highly skilled and effective teachers of reading **Teaching** DMC Put one person in charge of reading Management J Use instructional coaching to improve classroom instruction

Source: National Reading Panel, What Works Clearinghouse, experience of school systems who have dramatically improved reading scores

### Reading best practices often cost less than common practices.

#### Investment in elementary reading



# Intervention must provide additional time for struggling readers with mild-to-moderate disabilities and for students without IEPs.

#### **Elementary Intervention Strategy: Additional 30 Minutes Per Day**

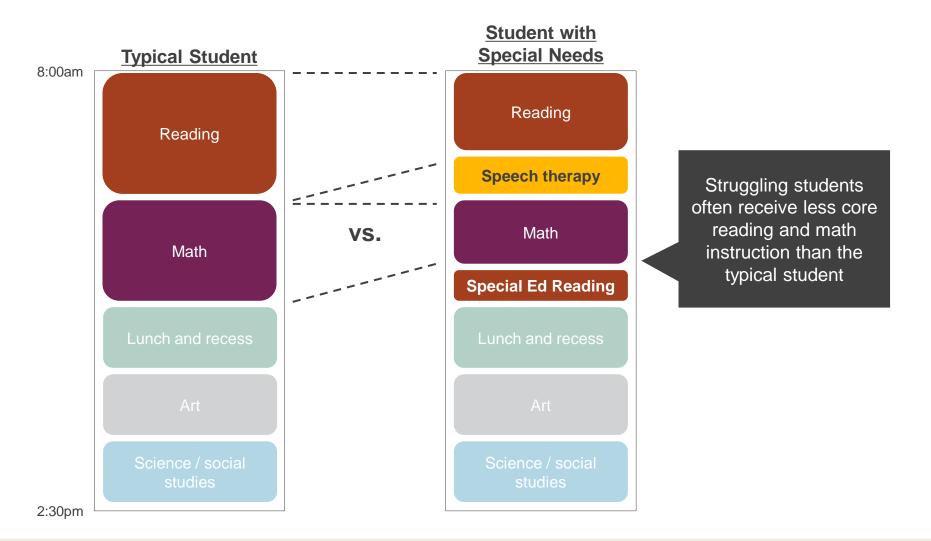
Costneutral intervention scheduling

	K	1	2	3	4	5
8:00	Reading	Writing	Intervention	Reading	Science	
8:30			Reading		Social Studies	Reading
9:00		Reading				
9:30	Writing			Intervention	Math	Writing
10:00	wiidiig		Writing	Writing		
10:30	Recess				Intervention	Science
11:00	Lunch	Math	Recess	Science	Specials	Social Studies
11:30	Intervention		Lunch	Social Studies	Recess	Specials
12:00	Math	Recess	Math	Specials	Lunch	Recess
12:30		Lunch		Recess		Lunch
1:00		Science		Lunch	Reading	Intervention
1:30	Science	Social Studies	Specials	Math		
2:00	Social Studies	Specials	Science		Writing	Math
2:30	Specials	Intervention	Social Studies			

- Additional 30 minutes daily of intervention instruction
- No-cost intervention is possible with strategic elementary scheduling

# Logistical challenges in building schedules to include extra help may actually undermine a student's time to learn.

### **Elementary Pullout Schedule: When More Becomes Less**



# Scheduling is how schools operationalize these strategies, and even medium sized districts require 200+ schedules at the elementary level.

#### **Number of Schedules Created**

5,000 Student District

"I'm so excited we hired a new AP so I don't have to build the schedule anymore"

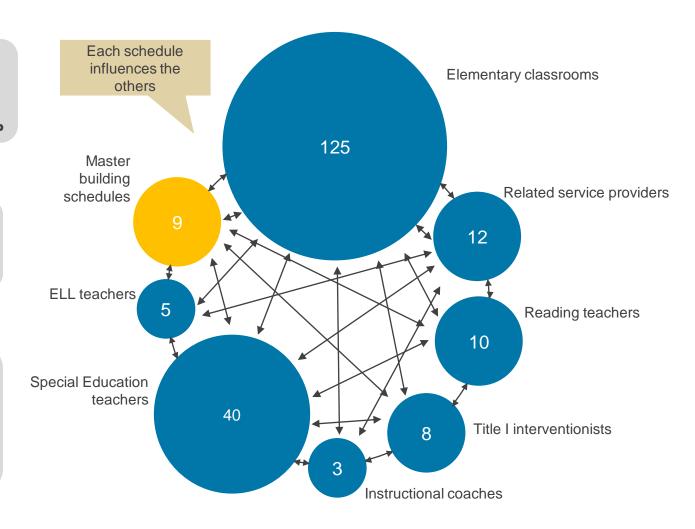
- AP

"Scheduling is the bane of my existence"

- Speech Therapist

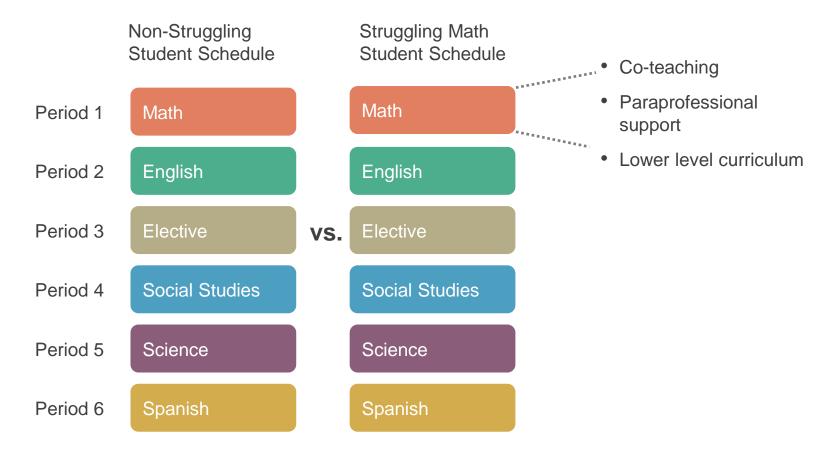
"I know we should do Read 180 for 90 minutes, but that would be impossible to schedule"

- Special Education
Director



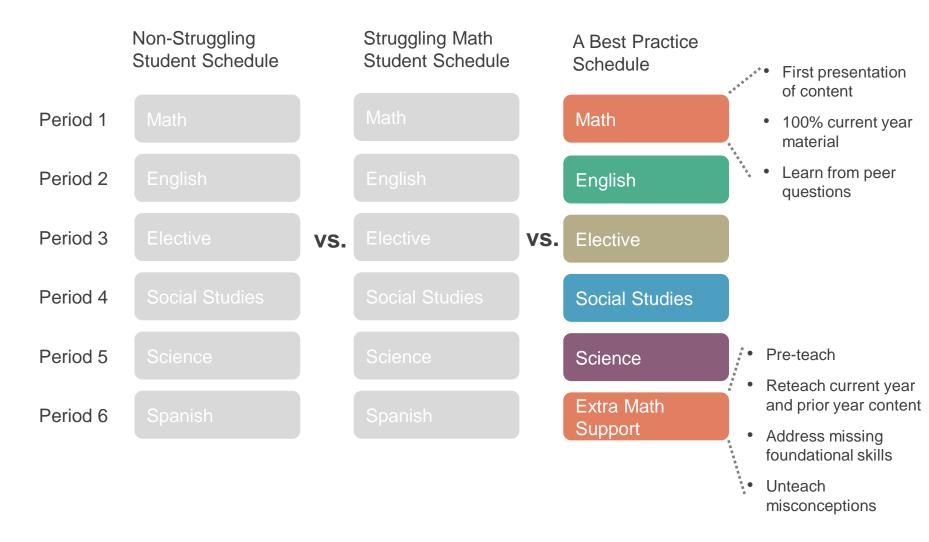
# In many secondary schools, "extra help" happens during core instruction or instead of core instruction.

### **Secondary Intervention Strategy: Typical Approach**



# Best practice for secondary intervention is a "double time" model that involves providing "extra help" in addition to core instruction.

### **Secondary Intervention Strategy: Best Practice Approach**



#### **Turn & Talk Activity**

"Do schedules control you, or do you control the schedules"

 How do schedules in your district help support these cost-effective strategies? How might they hinder cost-effective strategies?

# Deep content knowledge by teachers helps students unlearn misconceptions and master needed skills.

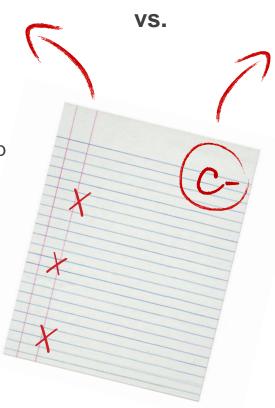
#### **Instructional Support for Struggling Students**

# Generalist Support

 Review test questions and show correct answer

Provide homework help

 Quiz in preparation for future tests



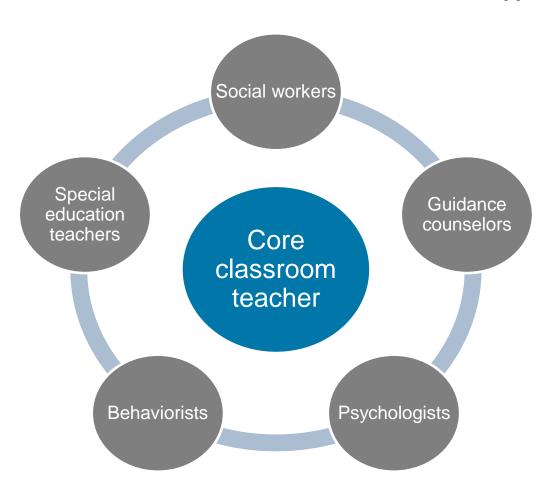
# Content Strong Support

- Associate each incorrect answer with underlying concept
- Infer misunderstandings from incorrect answers
- Teach prior, fundamental skills
- Teach correct material using 2 or 3 different approaches

<sup>\*</sup>Note: Struggling students is defined as students with IEPs for mild-to-moderate disabilities and students who struggle academically, however do not have an IEP.

# Meeting the social, emotional, and behavioral needs of students requires a group effort and many disciplines.

### Coordinated Social, Emotional, and Behavioral Supports



- All the different roles and players need to work from a common playbook.
- Assign clear roles and responsibilities, based not just on role or title but on individual strengths, training and aptitude.

# Effectively managing challenging behaviors requires much skill but not always many adults.

### Many adults

- Staff in each classroom or with one child
- Reactive- respond after an outburst
- Helps prevent learning disruptions of other students
- Helps student get through the day and through school



Many paraprofessionals required

### **Highly skilled experts**

- Staff assigned flexibly to many students
- Focus on prevention of outbursts
- Helps prevent learning disruptions of other students and student with behaviors
- Helps students prepare for life after graduation

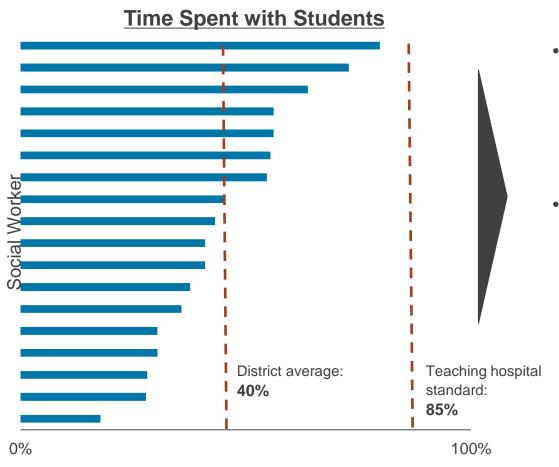


A few behaviorists and some paraprofessionals required

# Districts can expand the reach of these valued staff by closely managing and streamlining the time they spend in meeting and doing paperwork.

### **Streamlining Meetings and Paperwork**

**SEB SUPPORTS** 



- Psychologists, social workers, counselors, and behaviorists are asked to do many, many things.
- Expand the reach of these valued staff by closely managing and streamlining the time they spend in meeting and doing paperwork

Source: DMC

**About DMC** 

**Best Practices overview** 

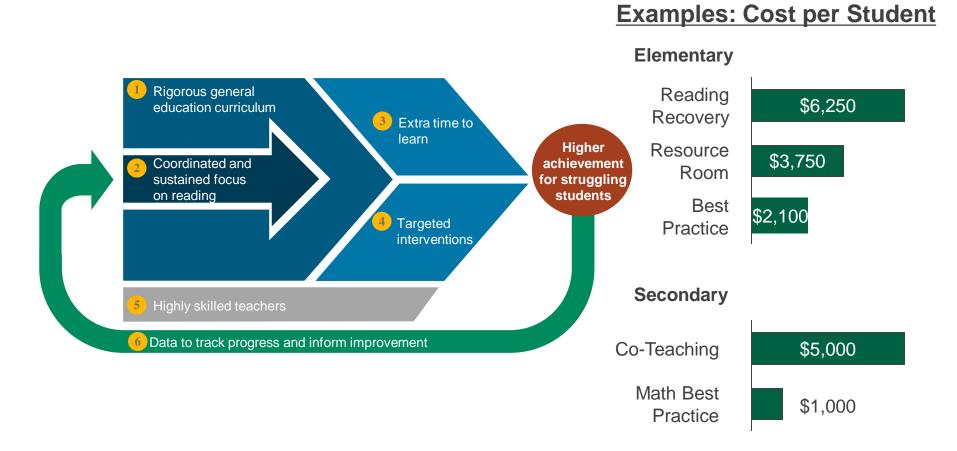
Cost implications of the best practices

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# Most of the best practices for raising achievement for struggling students cost less than many common practices.

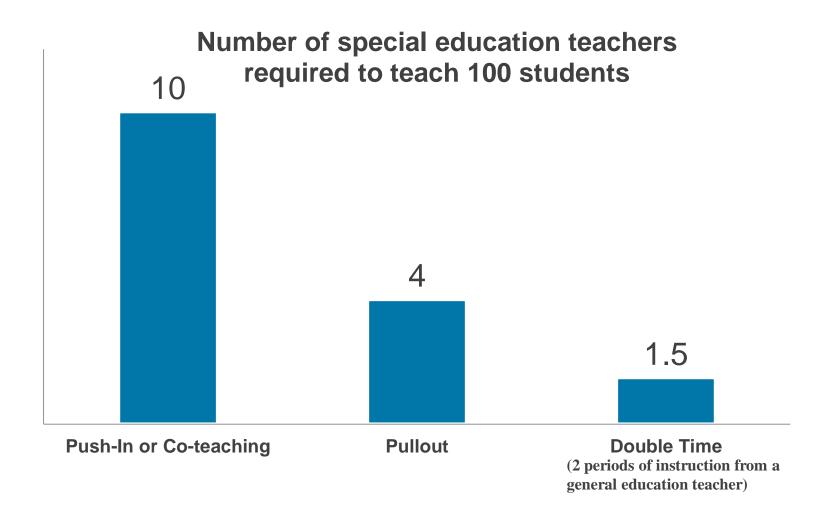
### **DMC Framework for Supporting Struggling Students**

SPECIAL EDUCATION



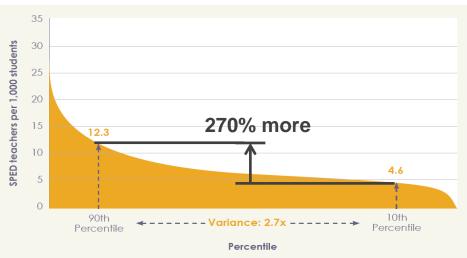
Some service delivery models lead to equal or higher achievement using far fewer resources.

SPECIAL EDUCATION

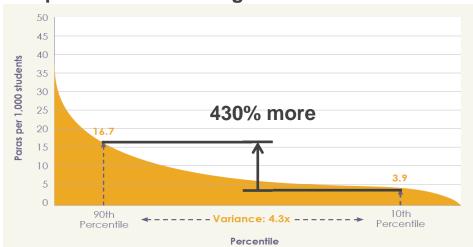


# Without any clear formula for special education staffing, districts across the country staff at very different levels for similar needs.

### **Special Education Teacher Staffing Nationwide**



### **Paraprofessional Staffing Nationwide**



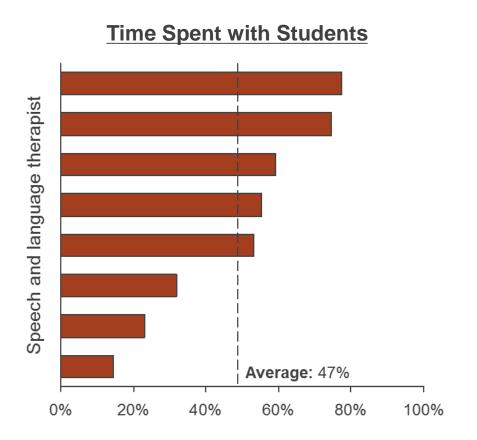
SPECIAL EDUCATION

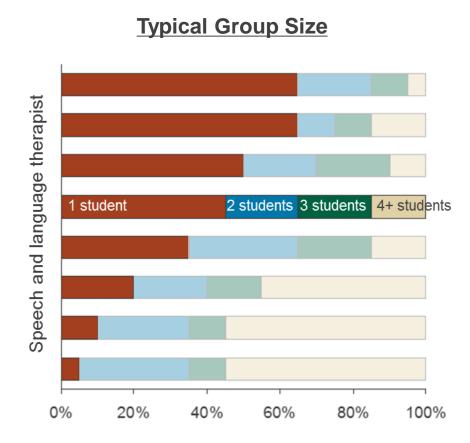
#### **Additional Findings**

- Similar variation occurs when data is controlled for like districts
- Districts with more special education teachers typically have more paraprofessionals as well
- More staff didn't mean better outcomes

# Setting staffing guidelines for two metrics can cost effectively provide transparency, without reducing service or student achievement.

Staffing Guidelines SPECIAL EDUCATIO





# General education class sizes are set after long deliberation, but other "class sizes" such as Tier 2 reading often receive less attention.

# Reading Teacher FTE Required for 200 Students Requiring Tier 2 Intervention

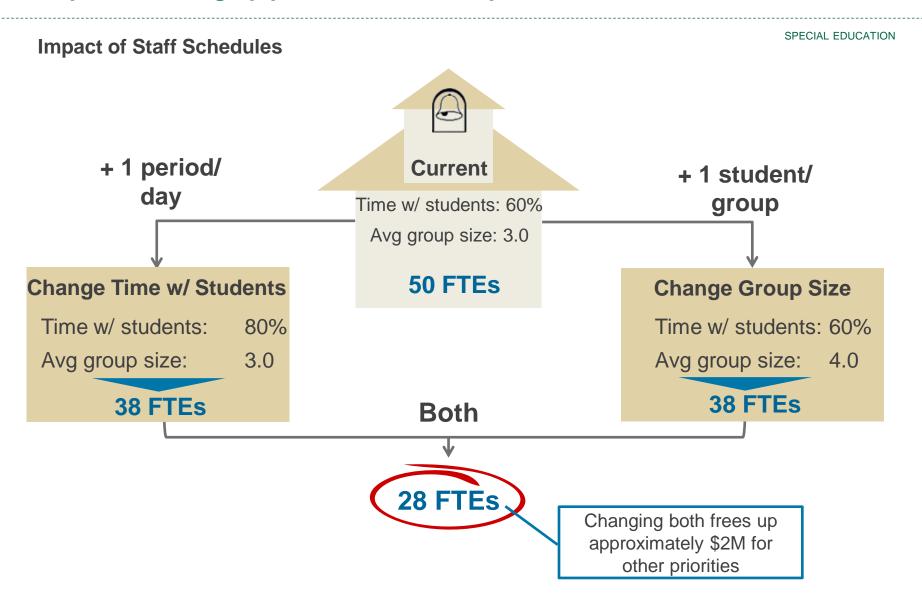
SPECIAL EDUCATION

### **Groups taught per Day**

		5	6	7	8	9
	3	13.3	11.1	9.5	8.3	7.4
Average	4	10.0	8.3	7.1	6.3	5.6
student group size	5	8.0	6.7	5.7	5.0	4.4
	6	6.7	5.6	4.8	4.2	3.7

Twice as many students served with the same staff

Even small changes to these inputs can lead to major changes in staff required, freeing up positions for other priorities.



### Staffing guidelines are both precise and nuanced.

#### **Potential Guidelines**

SPECIAL EDUCATION

#### 1. Time with students

What benchmark will the district use for the amount of time special education staff will spend with students?

A	A Select an internal benchmark (based on current levels of direct service among staff)					
	50 <sup>th</sup> percentile of current practice (15 hrs.)					
	80 <sup>th</sup> percentile of current practice (22 hrs.)					
	Maximum of current practice (27 hrs.)					
	OR					
B	Select an external benchmark (based on national norms)					
	National average for elementary general education teachers (direct service of 85% or 28 hours per week)					
	National median for speech therapists (direct service of 75% or 28.8 hours per week)					

### 2. Typical Group Size

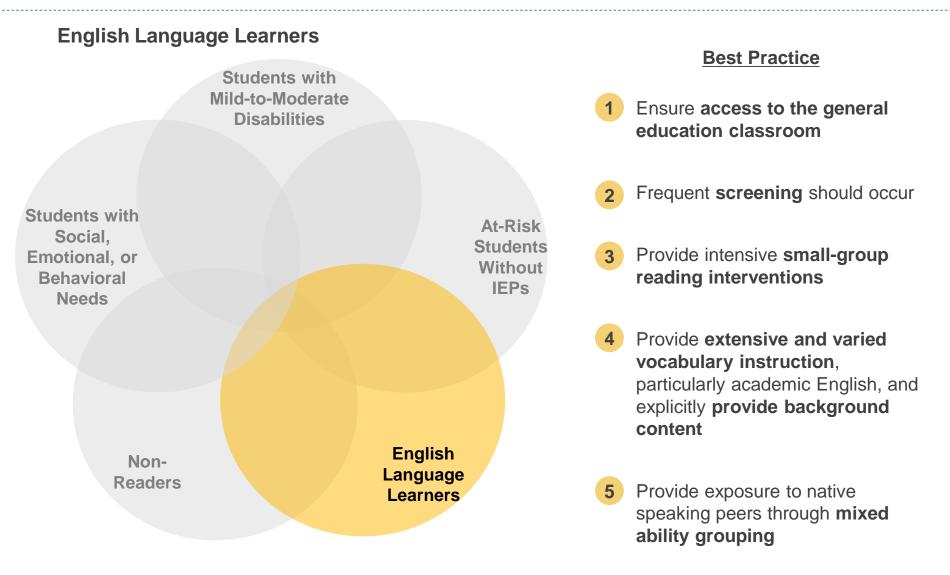
How should students be grouped based on their differing areas of need?

#### Set target group sizes for:

Reading:	students/group
Math:	students/group
Study skills:	students/arour

Staffing guidelines are very specific and detailed, and seldom based on caseload.

# Supporting most English language learners is similar to supporting other struggling students.



Note: Students who are newcomers and/or have limited formal education (SIFE) do have more specialized needs.

### Some nuanced differences in ELL best practices also exist.

#### **Recommended ELL Modifications**

#### **Best Practice**

Vocabulary development

Explicit teaching of comprehension

Small group intervention

90 minutes a day of literacy



#### **ELL Modification**

Academic vocabulary, especially

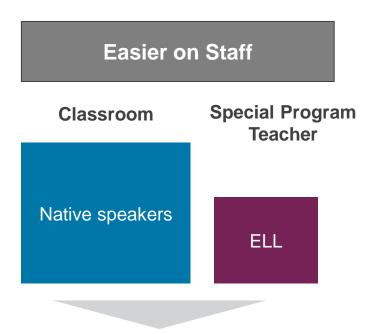
Also explicitly providing background content

Mixed ability grouping

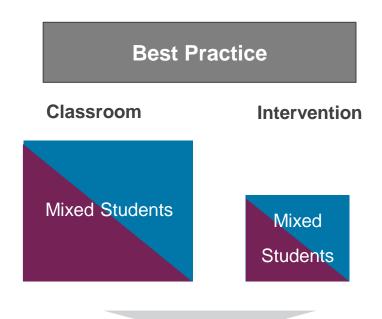
Embed literacy (academic vocabulary and writing instruction in all core subjects)

# Teaching struggling students, both ELL and native speakers, asks much of classroom teachers.

#### **Classroom Teacher Role**



Teachers can specialize by type of student



Teachers must master skills to serve a wide range of students

- District wide lesson planning
- Coaching support
- Some clustering, with limits
- Newcomer programs

# After partnering with more than 100 districts across the country, a few lessons were learned (the hard way!)

#### **Lessons Learned**

- 1 Start by knowing how time is currently being used to serve struggling students
- 2 Implementing best practices requires a skilled scheduler
- Frequent engagement and communication with parents, teachers and principals is critical to avoid misunderstandings
- 4 Special education alone can't lead this effort

**About DMC** 

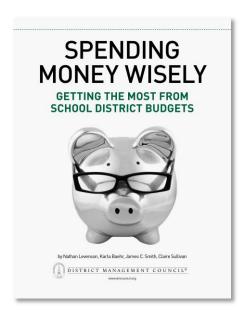
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### Additional resources are available.

### **Access to Online Resources and DMC Thought Leadership**



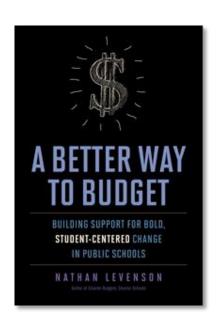
#### Spending Money Wisely

The top ten opportunities for resource realignment in public schools



#### The District Management Journal

DMC's signature semi-annual publication providing insightful best practices research and articles



# A Better Way to Budget by Nathan Levenson

Available on Amazon and via Harvard Education Press

#### What's Next?

- Learn More about DMC best practices and services
  - Request a call
  - Receive case studies and/or literature
- Join us at an upcoming Conference
  - Superintendent's Strategy Summit,
     January 11-13, 2017, New York City
- Become a member of DMC. Benefits include:
  - Access to DMC research and publications
  - Registrations to professional development conferences
  - The chance to network with like-minded peers



Innovating with Impact: Moving from Bold Ideas to Sustainable Results

# Q&A



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