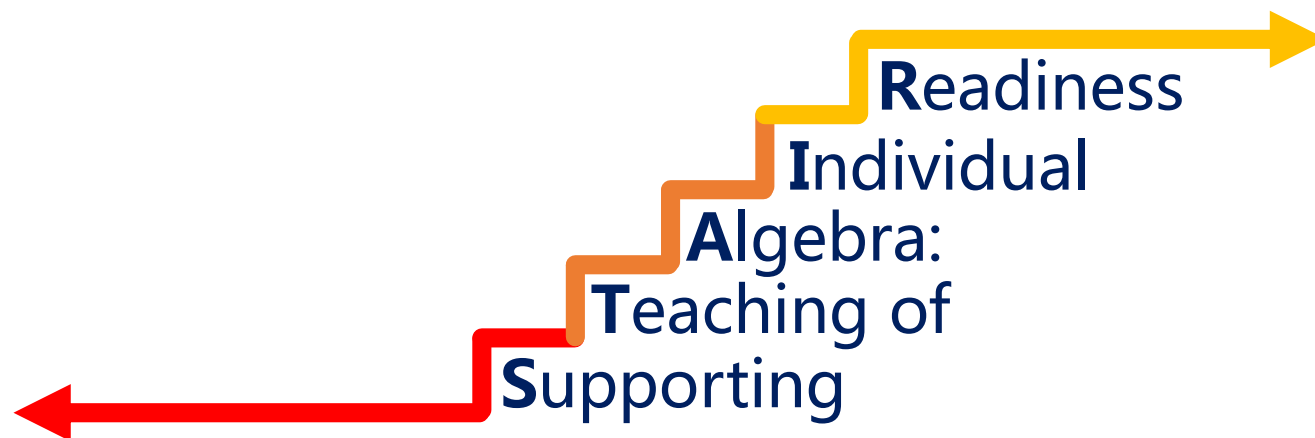


Project STAIR

Leanne Ketterlin-Geller, Erica Lembke, and Sarah Powell





Office of Special Education Programs
U.S. Department of Education

This project is supported by the U.S. Department of Education, Office of Special Education Programs (OSEP). Opinions expressed herein are those of the authors and do not necessarily represent the position of the U.S. Department of Education.



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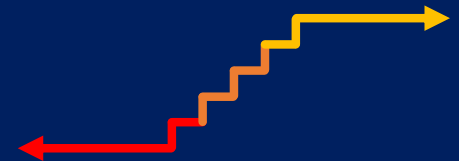


The Meadows Center
FOR PREVENTING EDUCATIONAL RISK



TEXAS Education
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College of Education

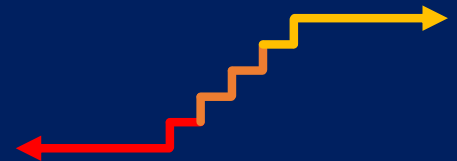
blog.smu.edu/projectstair/
@ProjectSTAIR



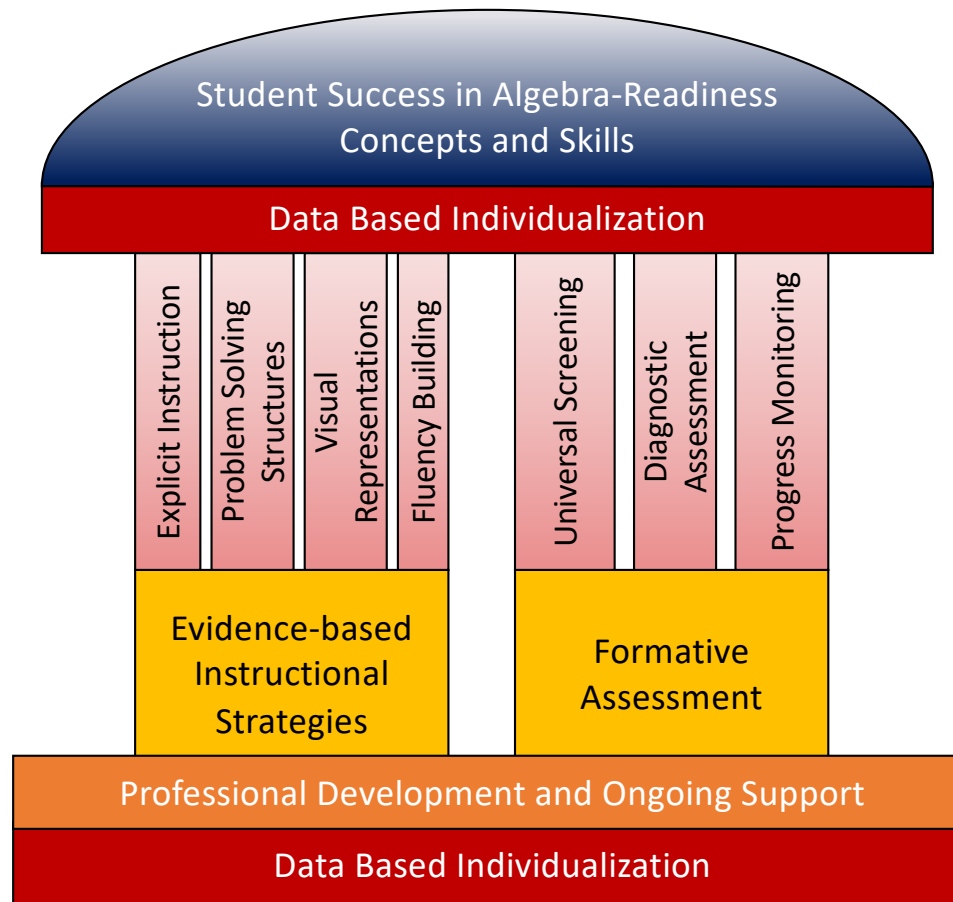
Project STAIR

- Project STAIR targets early intervention in middle schools
 - Systems-level perspective
 - Data-based individualization
- Goal → preparation for Algebra 1 in high school
- To reach this goal, we designed Project STAIR, a four-year model demonstration project

Many slides adapted from McMaster & Lembke (2018)

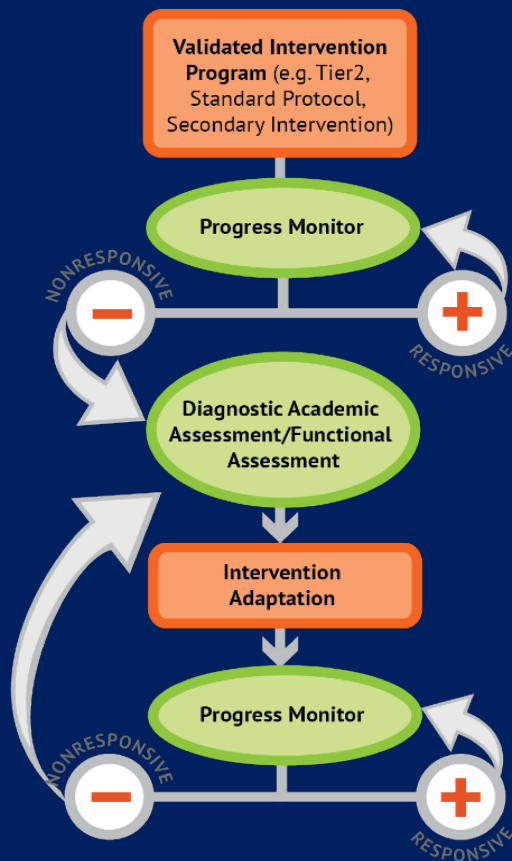


Description of the Model



2. Key Components of DBI

Universal Screener



1

- Establish that there is a Tier 2 validated intervention program in place

2

- Progress monitor
 - Establish a present level
 - Set an ambitious long term goal
 - Collect frequent assessment data
 - Use decision rules

Progress Monitoring

3

- Based on student responsiveness
 - Continue the Tier 2 program
 - Collect Diagnostic data

Diagnostic Assessment

4

- Make an instructional change based on hypothesis

5

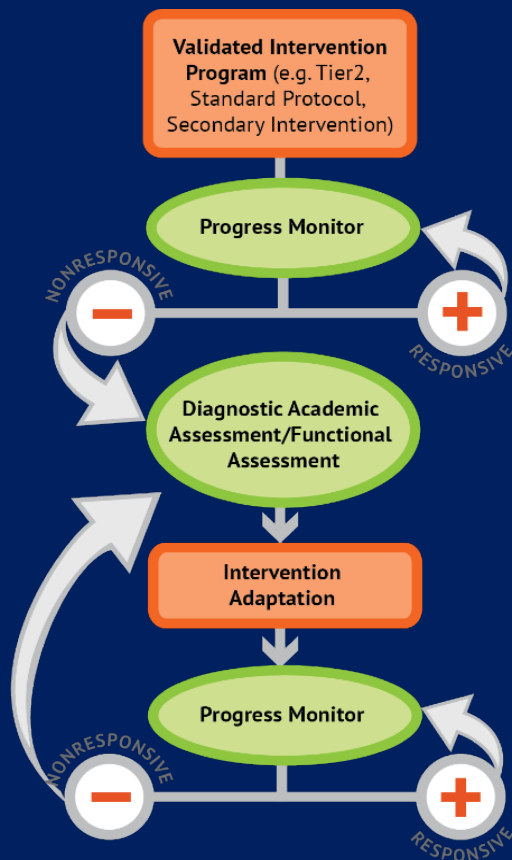
- Continue to monitor progress of instruction

Progress Monitoring



2. Key Components of DBI

Renaissance STAR



1

- Establish that there is a Tier 2 validated intervention program in place

2

- Progress monitor
 - Establish a present level
 - Set an ambitious long term goal
 - Collect frequent assessment data
 - Use decision rules

Istation's ARPM

3

- Based on student responsiveness:
 - Continue the Tier 2 program with progress monitoring
 - Collect Diagnostic data

DOMA

4

- Make an instructional change based on hypothesis

5

- Continue to monitor progress instruction

Istation's ARPM

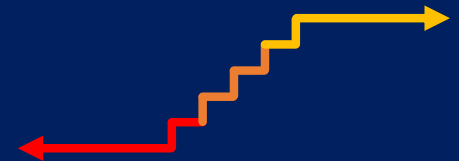
ve to



Universal Screener: Identify Eligible Students



- Which (if any) students are at-risk or underperforming?
- Which students need interventions?
- What degree of intensity of intervention is needed?
 - Who needs intensive intervention?



Progress Monitoring: Istation's Algebra Readiness PM

Subtest	Quantity Discrimination	Number Properties	Proportional Reasoning
Example Exemplar Item	$3.35 \square 3\frac{1}{4}$	$3\frac{5}{9} + 1\frac{3}{4} \square 1\frac{3}{4} + 8\frac{5}{9}$	$40\% \text{ of } 40 \square 40\% \text{ of } 60$
Possible Numerical Reasoning Strategy	<p>The common fraction $\frac{1}{4}$ is routinely converted to 0.25, making this comparison of magnitude about recognizing and evaluating values between number systems. Since the whole numbers are the same and</p> <p>$0.35 > 0.25$, then $3.35 > 3.25$.</p>	<p>Because of the commutative property of addition, the order of the addends does not affect the sum. Therefore, the comparison $a + b \square b + c$ can be determined by comparing a and c.</p> <p>Since $3\frac{5}{9} < 8\frac{5}{9}$, then</p> <p>$3\frac{5}{9} + 1\frac{3}{4} < 1\frac{3}{4} + 8\frac{5}{9}$.</p>	<p>The same percent, 40%, is specified for both quantities represented in the comparison. Since 40 is less than 60, then</p> <p>$40\% \text{ of } 40 < 40\% \text{ of } 60$.</p>

DBI Process Illustrated

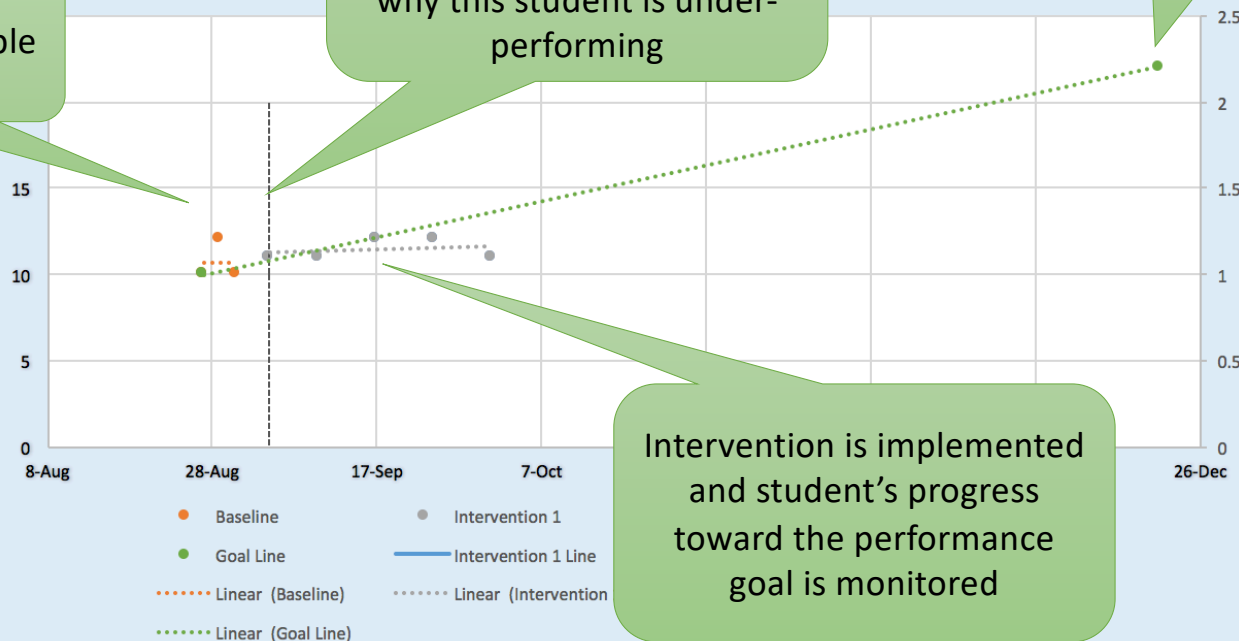
Stephen Foster

QD Median	10
QD Goal	22

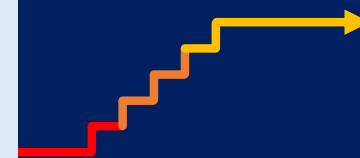
Baseline data are collected from eligible students

Diagnostic assessment data are used to make an informed hypothesis about why this student is under-performing

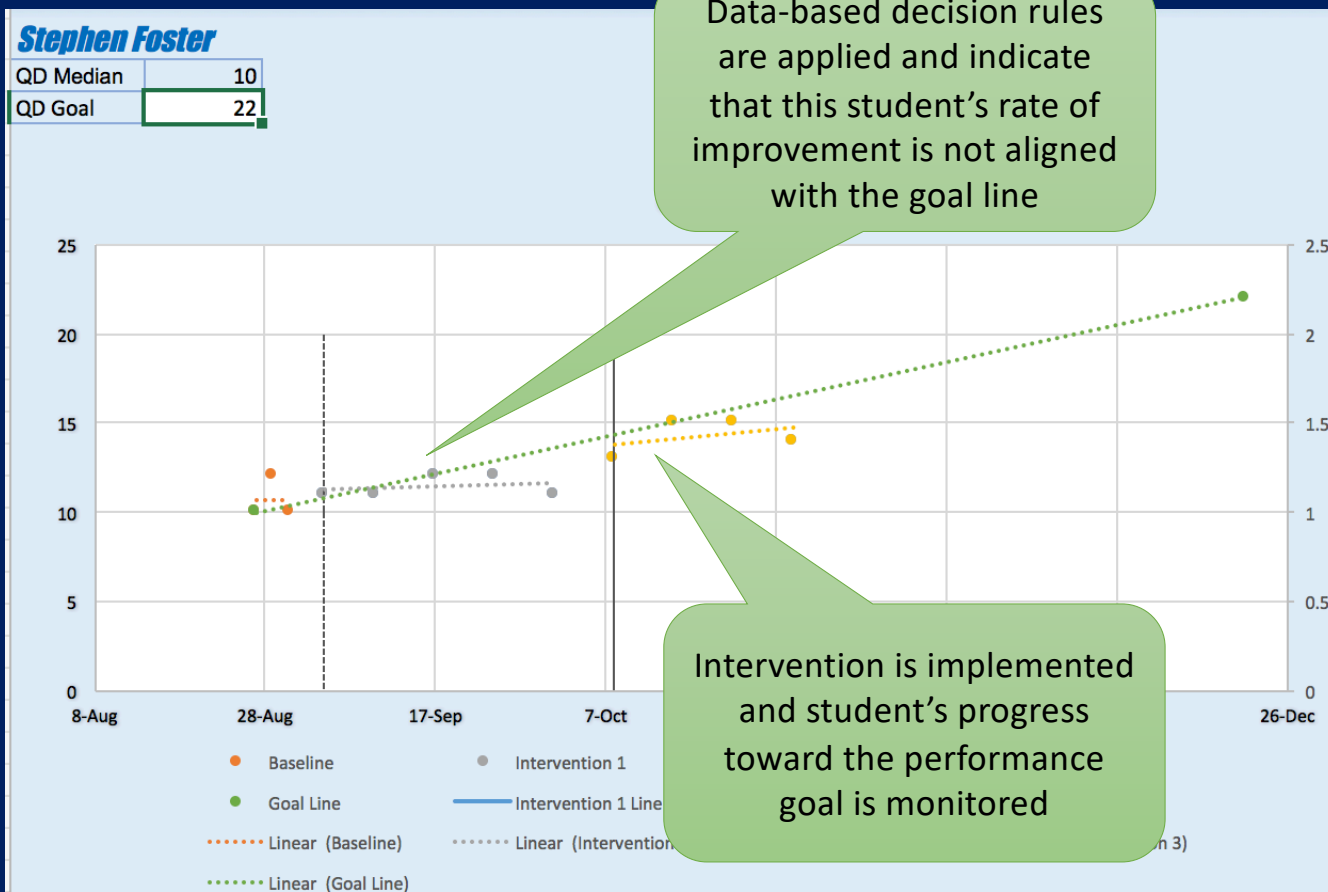
Performance goal is established



Intervention is implemented and student's progress toward the performance goal is monitored



DBI Process Illustrated

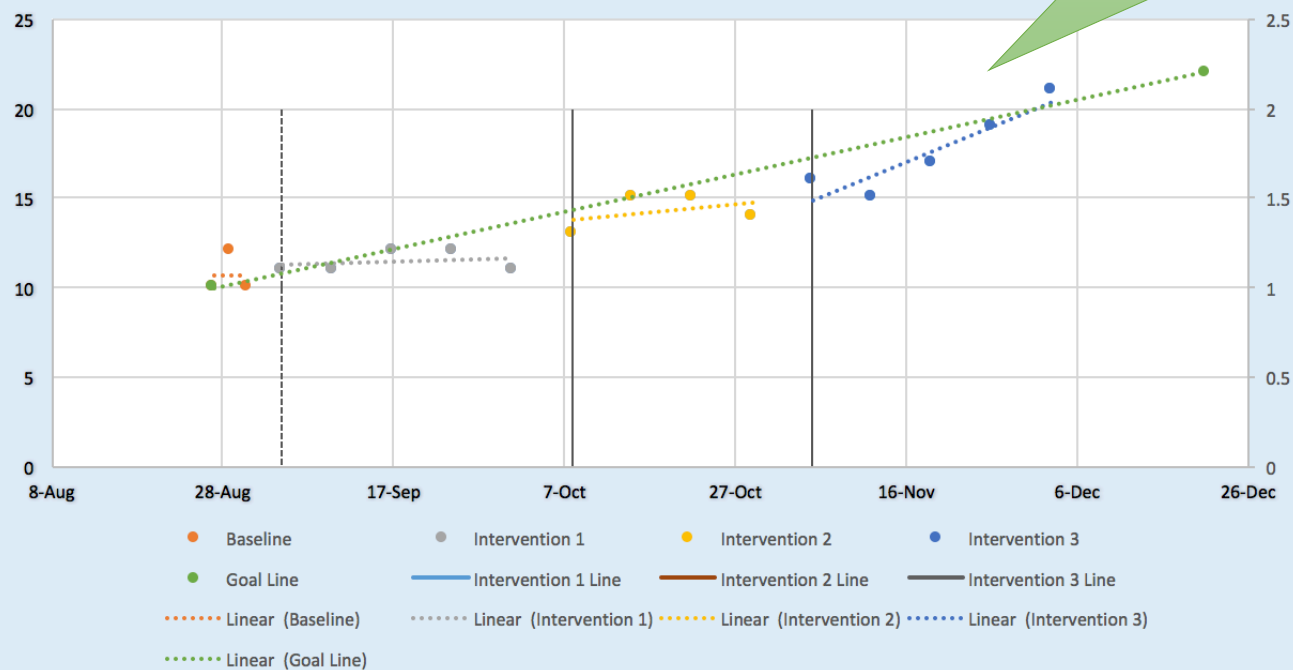


DBI Process Illustrated

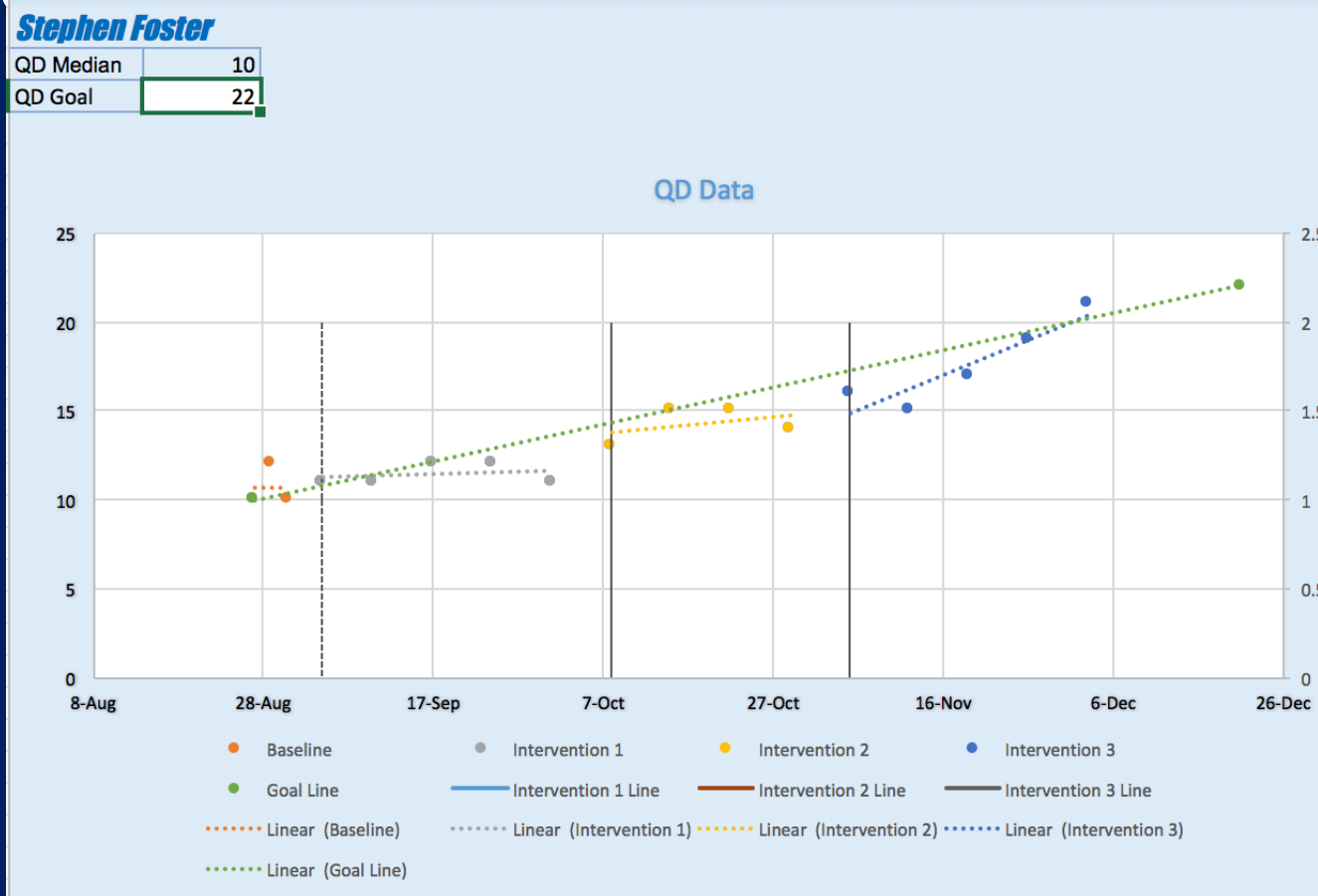
Stephen Foster

QD Median	10
QD Goal	22

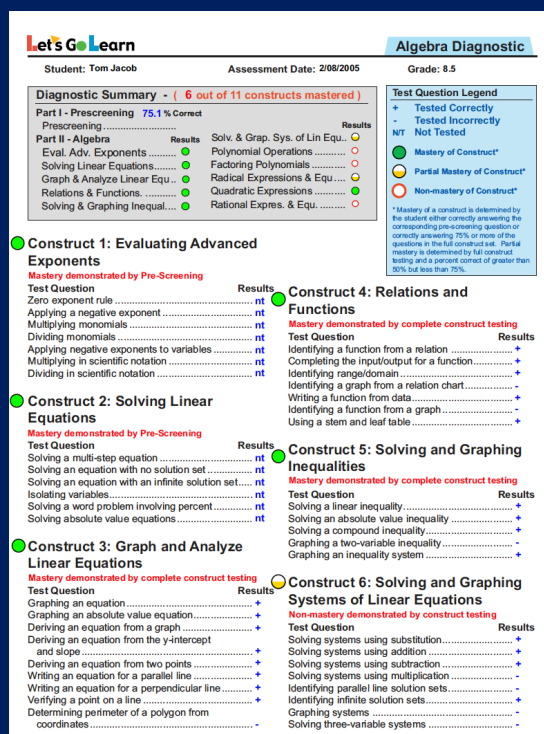
QD Data



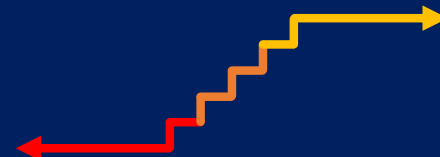
Progress Monitoring: Process Illustrated



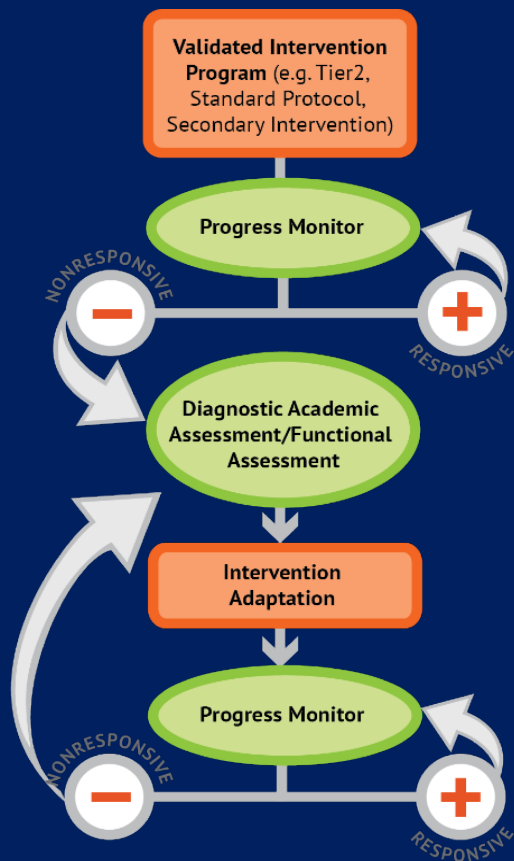
Diagnostic Assessments: Hypothesis Generating



- Why is a student underperforming?
 - What are the student's correct conceptualizations or understandings of the content?
 - What are the student's persistent misconceptions and errors?
- What content and/or instructional design features should be included in the intervention for this student?



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4

- Make an instructional change based on hypothesis

5

- Continue to monitor progress to determine if student is/is not responsive to instruction





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