# How to Teach Mathematics and Make Adaptations Within a Data-Based Individualization Framework
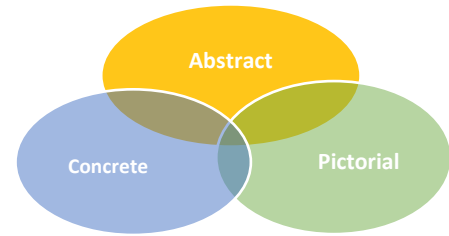
Project STAIR

Aims to develop and iteratively refine a framework for using DBI to integrate evidence-based mathematics instructional design principles with algebra-readiness formative assessments in middle school classrooms.

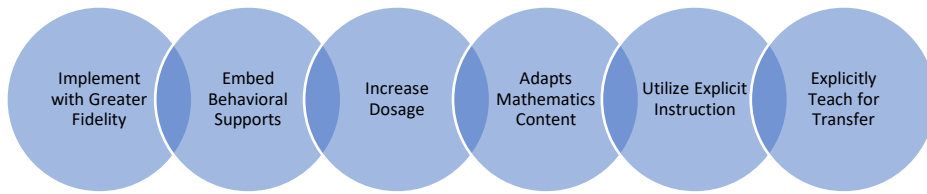## Data-Based Individualization – Explicit Instruction – Multiple Representations
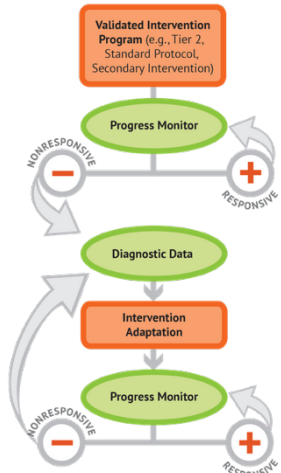
DBI framework from the National Center on Intensive Intervention https://intensiveintervention.org/intensive-intervention

Modeling
Clear Explanation

Planned Examples

Practice
Guided Practice

Independent Practice

Supports
- Asking the right questions
- Eliciting frequent responses
- Providing immediate specific feedback
- Maintaining a brisk pace

Abstract

Concrete

Pictorial

6 Instructional Adaptations

Implement with Greater Fidelity

Embed Behavioral Supports

Increase Dosage

Adapts Mathematics Content

Utilize Explicit Instruction

Explicitly Teach for Transfer

Strategies to Support Teaching Mathematics Virtually

Explicit Instruction
- Virtual manipulatives

Multiple Representations
- Model in a video for asynchronous learning
- Model using a virtual whiteboard for synchronous learning

Scan the QR Code for more information

Learn more:
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Blog.smu.edu/projectstair