

Teacher-delivered Modified Schema Based Instruction Targeting Problem Solving of Middle School Students with Intellectual Disabilities in Small Group Instruction

Background / Purpose

- Post-secondary success is predicted by academic achievement. (Nasamran et al., 2017)
- With assistance, students with extensive support needs (ESN) can learn grade-level mathematics. (Courtade et al., 2014; Spooner, McKissick, & Knight, 2017)
- Leading professionals concur that students with ESN have better quality of life when they receive high-quality academic instruction. (Spooner & Browder, 2015; Taber-Doughy, 2015)
- Recent research has identified modified schemabased instruction (MSBI) as an effective method for teaching mathematical concepts to ESN students. (Root et al., 2021)



Research Question

What is the effect of teacher delivered modified schema-based instruction on mathematical problem-solving behaviors of middle school aged students with intellectual disabilities?

Research Design

This study used a multiple baseline design including the following phases:



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Participants & Setting



Distal measure

sessions

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Teacher-delivered MSBI within naturalistic settings (e.g., whole group instruction) Evaluating the appropriate timing of progressing students from different phases of learning (acquisition, fluency, generalization, maintenance)

Research of real-world generalization

Maintenance of acquired skills

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Sessions Limitations & Future Research

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Participant 1

Participant 2

Participant 3

Participant 4

