Research exercise: The implications for instruction under The Common Core State Standards in Mathematics and the effect on students with Dyscalculia

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## Dyscalculia

- Mathematical learning disability affecting 3-6% of the school aged population
- Visual-spatial and/or language processing disability
- Difficulty conceptualizing numbers, performing operations, memorization, understanding terminology, etc.
- No neurological explanation, although neurological deficits have corresponded with these symptoms
- Co-morbid with other learning disabilities

## The Common Core State Standards

- State-led initiative that started implementation in 2012
- Give student knowledge to succeed in college, career and life no matter where they live
- Make students more internationally competitive
- Conceptual understanding of mathematics and use of real-world application

## Intervention Strategies for Dyscalculia

- Mathematical Language
- Linking Concepts
- Multisensory Strategies
- Conceptual Understanding

## Purpose of this study

Understand how the new Common Core State Standards are supporting students with dyscalculia

## Continuation of research

3 students, their teachers, and their parents will be interviewed

Sample Questions:

- Do you understand why you are doing what you are doing when solving math problems? (Student)
- What ways do the new standards impact your instructional strategies? What have you had to change? (Teacher)