



Syntheses of Research on Dyscalculia and The Common Core State Standards

Melissa Siegel

Advised by Dr. Mary-Kate Sableski

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)