# Comparison of Students' Achievement: Deaf, Learning Disabled, and Deaf With a Learning Disability



Summary of Caemmerer et al., "Comparison of Students' Achievement: Deaf, Learning Disabled, and Deaf With a Learning Disability"

# Why was this work done?

- There is a growing concern that deaf students who have a learning disability (LD) are being
  improperly identified, as most assessment measures are not designed for use with deaf
  individuals, and interpreting findings is challenging.
- As in the general population, LDs are the most prevalent disability in the deaf population.
   Differences in academic achievement across deaf students with and without a LD may help educators better diagnose this population.
- Most research on deaf student achievement compares deaf students to their hearing peers, but does not include the assessment tools that are used to diagnose LD.

#### How was this work done?

- Researchers used data from a national-level study of students with disabilities, known as The National Longitudinal Transition Study-2 (NLTS2). Three groups of students were analyzed: 363 deaf students, 111 deaf students with a LD, and 666 hearing students with a LD (1,140 total participants).
- To identify differences in performance between the three groups, students with other disabilities, including cognitive disabilities, were not included in this study.
- Researchers tested whether standardized reading and math performance (as measured by subtests of the Woodcock-Johnson Tests of Achievement of Cognitive Abilities III) and classroom grades differed between these three groups of students.

## What did researchers find?

- The reading performance of deaf students and hearing students with a LD was not significantly different.
- Deaf students with a LD were significantly more likely than the other two groups to score below average on several standardized achievement tests.
- Deaf students scored significantly higher on a math calculation test and earned higher classroom grades than deaf students with a LD.

High school students with low math calculation skills and low grades may be more likely to have a learning disability.



### What do these results mean?

- Educators may be more concerned if their deaf student struggles with math calculation and if there is a pattern of low scores across several standardized tests in a variety of areas.
- Although classroom grades are often thought to be a more subjective measure of performance than standardized achievement scores, grades were also useful in differentiating between deaf students with and without a LD.
- Lower performance on only reading and vocabulary tests may not be suggestive of a LD for deaf students.







