outlier

RESEARCH & EVALUATION CEMSE | UNIVERSITY OF CHICAGO



Sarah Wille, Senior Researcher

- Implementation and key supports for and barriers to implementation: # 1339256
- Research-informed resources and tools for education leaders: # 1433832
- Broadening participation of students with learning disabilities in AP CSP: # 154296

"Learning Differences": Students with learning disabilities and/or an Attention Deficit/Hyperactivity Disorder (ADHD))

Include in STEM+C broadening participation efforts:

- **♦** Equity
- ♦ Innovative contributions to STEM+C

Common Learning Disabilities

(The State of Learning Disabilities, 2014)

- Dyslexia (specific to reading)
- Dyscalculia (specific to math)
- Dysgraphia (specific to writing)

Associated Deficits & Disorders

- Auditory Processing Deficit
- Visual Processing Deficit
- Executive Functioning Deficits
- Attention Deficit/Hyperactivity Disorder (ADHD)



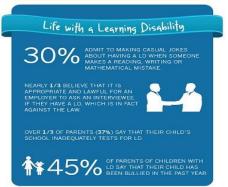
National Center for Learning Disabilities, Inc.

The power to hope, to learn, and to succeed

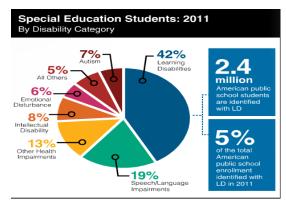








FOR MORE INFORMATION REGARDING LEARNING DISABILITIES, PLEASE VISIT WWW.LD.ORG

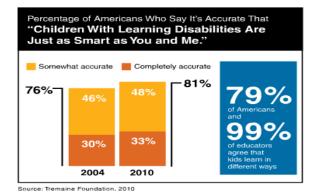


Source: IDEA Part B Child Count, Ages 6-21. Does not include Developmental Delay sategory (allowable to age 9).



According to Sheldon Horowitz, Director of LD Resources at the National Center for Learning Disabilities,

"Learning disabilities are **not** a prescription for failure. With the right kinds of instruction, guidance and support, there are **no limits** to what individuals with LD can achieve." The State of Learning Disabilities, 2014.





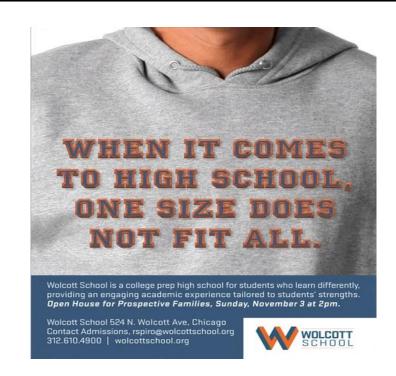
Source: 2012 Survey of Public Perceptions of LD, NCLD

Bringing AP Computer Science Principles to Students with Learning Disabilities And/Or ADHD: The Hidden Underrepresented Group



Work in collaboration with Wolcott learning specialists, teachers, & students to:

- Identify challenges students with learning differences engaging in CS
- Identify possible solutions
- Test specific adaptation and accommodations in lessons from 2 AP CSP curricula – Beauty and Joy of Computing for NYC (BJC4NYC) and Code.org's CSP





Take Action:

Talk about students with learning differences (learning disabilities and/or ADHD) as an important dimension of STEM+C broadening participation.





Recap:

- 5 20% of students in the U.S. have a learning difference.
- They are as intelligent as you.
- Their unique contributions to our nation's STEM+C efforts are critical.