DYSLEXIA



Dyslexia is a learning disorder that affects one's ability to read, spell, write, and speak. Children who have dyslexia are often smart and hardworking, but they have trouble connecting the letters they see, to the sounds those letters make.



About 5% to 10% of Americans have some symptoms of dyslexia, such as slow reading, trouble spelling, or mixing up words.*

DEMOGRAPHICS



Dyslexia affects just as many females as it does males. One cannot grow out of dyslexia.**



Around 30-40% of students with dyslexia have a family history of dyslexia.***

GENETICS



If one identical twin has dyslexia, the other twin has about 70% likelihood of being dyslexic.***

Best Practices for Students with Dyslexia
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Use images, diagrams and infographics to support testing materials/tests



Allow the student to use audio books and video to digest content if possible



Avoid large blocks of text and keep the text aligned left



Make content on screens scalable and high contrast



Allow the student extra time to complete timed assessments



When teaching subjects like math, allow the student to use tactile objects such as money



Allow the student to use spellchecker on a computer



Have the student read aloud their written work before submitting

* Dyslexia Center of Utah

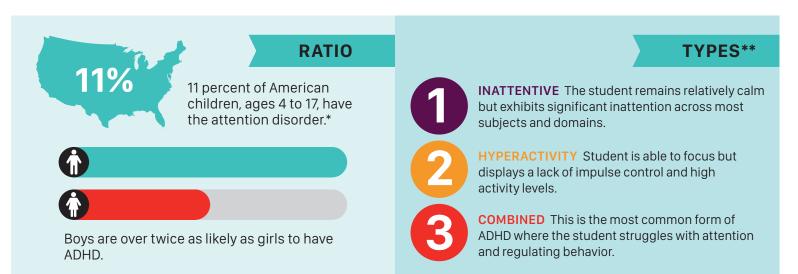
** International Dyslexia Association

***U.S. National Library of Medicine National Institutes of Health

ATTENTION DEFICIT HYPERACTIVITY DISORDER (ADHD)



Attention deficit hyperactivity disorder (ADHD) affects children and teens and can continue into adulthood. ADHD is the most commonly diagnosed mental disorder in children. Children with ADHD may be hyperactive and unable to control their impulses. It's usually discovered during the early school years, when a child begins to have problems paying attention.



Best Practices for Students with ADHD Encourage the student to sit in the front Avoid having the student near a door of the classroom near the teacher or a window Divide long-term projects into segments Use visuals: charts, pictures, color coding and assign a completion goal for each seament Vary the pace and include different kinds Establish eye contact with any student of activities. Many students with ADHD who has ADHD do well with competitive games or other activities that are rapid and intense. Allow the student frequent breaks and let Create a quiet area free of distractions him/her squeeze a rubber ball or tap for test-taking and quiet study something that doesn't make noise as a physical outlet

* Centers for Disease Control and Prevention (2016)

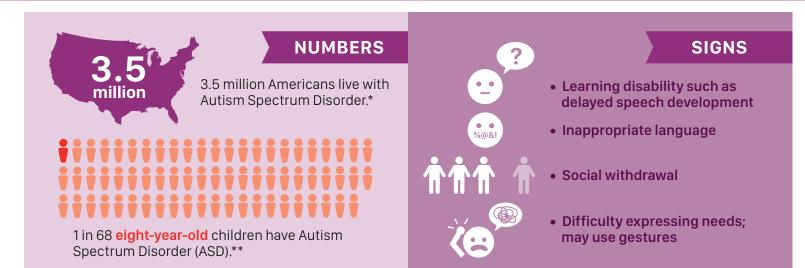
**Johns Hopkins Medical

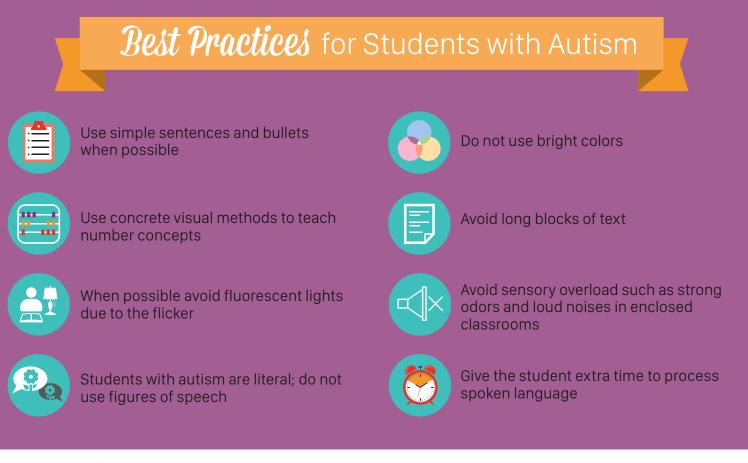
AUTISM



http://traviselearning.net

Autism Spectrum Disorder (ASD) is a complex developmental disability; signs typically appear during early childhood and affects a person's ability to communicate and interact with others. ASD is defined by a certain set of behaviors and is a "spectrum condition" that affects individuals differently and to varying degrees. There is no known single cause of autism, but increased awareness, early diagnosis/intervention, and access to appropriate services/supports can lead to significantly improved outcomes.





* Autism Society Organization

**Centers for Disease Control and Prevention

PHYSICAL DISABILITY

PHYSICAL DISABILITY

DEAF

Although physical disabilities disproportionately impact older people, it is important to design content that is accessible for people who are low vision/blind, hard of hearing/deaf and with motor impairments.



BLIND



62,528 U.S. students attended elementary or primary school in 2016 and qualified for Braille, large-print, or audio-based learning materials.**

Best Practices for Students with Low Vision and Blindness

Use text with high contrast

Publish all information on a webpage

Make links and buttons descriptive

Allow for screen magnification

PHYSICALLY IMPAIRED



Children and youth with physical impairments comprise 1.5% of the total population of students with disabilities who receive special education services.**** Many students have accompanying neurological impairments which may impact organizational and independent work skills.

Best Practices for Students Who Are Hard of Hearing or Deaf

Somewhere around 20,000 deaf and hard of

hearing students attend post-secondary

educational institutions each year.***

Use subtitles or provide a transcript

Use a linear layout

Write in plain language

Allow alternative ways to communicate outside of verbal communication or oral presentations

Best Practices for Students with Physical Disabilities



Make large clickable buttons

Design webpages that can work with keyboard navigation



Design with mobile phones and touch screens in mind

Allow for adjustable timeout of sessions

Latest Census Bureau disability report The National Federation for the Blind The National Center for Educational Statistics

National Science Teachers Association