

**Agenda** 

- Tools for Life & the Center for Inclusive Design and Innovation (CIDI)
- · Who Qualifies for AT in School

· Disability-related research Accessibility consulting – ICT and UX

Services

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Braille and AEM

K-12 through GIMC

· Captioning and Described Media

Professional E-Text Production

\* GADoE & TFL AT Partnership Services \*

Assistive Technology Team (Tools for Life)

AT/UDL Software – Read&Write, EquatIO EdTrade – AT Reuse Database

AT Device Demonstrations & Loans, Information/Support

- · What is AT and what might students need? Definition of AT and the Continuum
- · Access to Technology and Educational Curriculum via AT
  - Assistive Technology to Accommodate Motor Needs
  - Assistive Technology to Accommodate Sensory & Emotional Needs

Center for Inclusive Design and Innovation

• How to Get AT Support for K-12 - GADoE/TFL AT Partnership

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### **Tools for Life**

Tools for Life (TFL), Georgia's Assistive Technology Act Program, provides Georgians of all ages and disabilities the opportunity to gain access to and acquire assistive technology devices and service so they can live, learn, work, and play independently in the communities of their choice.







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### What is Assistive Technology?



• An Assistive Technology Device is:

"Any item, piece of equipment or product system, whether acquired commercially off the shelf, modified, or customized, that is used to increase, maintain, or improve the functional capabilities of children with disabilities.

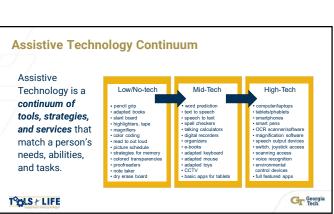
• GADoE - Assistive Technology and IDEA

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**Assistive Technology Continuum** Assistive Technology is a Mid-Tech High-Tech continuum of tools, strategies, and services that match a person's needs, abilities, and tasks. TOLS # LIFE G Georgia

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# **Which Students Might Need AT?**



- Potentially any student!
- Ask yourself, "Can the student access the Educational Curriculum and technology?
- Look for limitations stated in the Present Levels of Academic Achievement and Functional Performance (PLAAFP)
- And identify AT to assist in overcoming barriers to mastering any of the identified goals

Remember, all components of the IEP are derived from PLAAFP. Goals and services, including any needed AT.

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# Impacts or Barriers to Learning-**Tiers 2 & 3**

Professionals and school staff should consider:

· Assistive Technology

OR

• Other Educational Services, Supports, Strategies

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# **Identify Tools or Strategies - SETT Framework**

- S ... Student
- E ... Environment
- T ... Task
- T... Tools (or Strategies)

Should include a team:

To share knowledge, to collaborate and communicate ideas, & to provide multiple perspectives about each of the above.

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SETT - AT Consideration Process, GADOE Georgia



# **AT for Technology Access**

- to accommodate motor needs



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### AT for Technology Access

- · All students should have access to technology in the classroom as part of their educational curriculum
- Touchscreens are frequently available for students in SDI self-contained classrooms, along with regular keyboards and mice as standard ways to access technology
- Many students in SDI classrooms have difficulty accessing technology for learning using these standard methods because of motor, cognitive, or other impairments.
- Alternative access methods should be considered

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### Alternative Access for Technology - Motor

- For students who are using technology as a <u>tool for learning</u>, to gain information or to complete activities or lessons
  - May have ability to access technology using standard touchscreens, keyboards, & mice
  - Motor impairments may require other access methods: alternative keyboard or mouse, stylus, joystick, head trackers, eyegaze devices to access the technology
  - · When motor or cognitive challenges are severe, switches may be needed to access technology
- For students who are developing their ability to **participate** or **interact** consistently daily and during lessons
  - · May need switches or single switch (or basic) voice output devices

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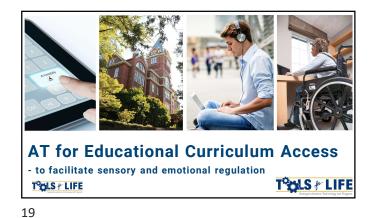


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**Motor Movements - Consistent, Efficient, Natural**  Consult with OT/PT to identify the most appropriate motor movement · Consistent, reliable, and repeatable when desired · Efficient and effective · Natural and minimizes strain or the potential for repetitive stress injuries TOLS # LIFE Gr Georgia Tech

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### **Specially Designed Instruction (SDI) Classrooms**

Students often have multiple disabilities and factors that impact ability to learn.

Learning and participation may be impacted globally to a severe or profound degree.

Sensory and social-emotional factors additionally impact ability to receive and participate in instruction

Optimize students' ability to learn; to both receive and participate in instruction.

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### Proactive AT for Emotional Regulation (Anxiety-Calming)

a structured environment so that it feels safe and is predictable to minimize anxiety and frustration

- Visual Schedules
- · Within-Task Schedules
  - pictured or written task steps
  - · help box
- - classroom screen timers ... <a href="https://classroomscreen.com/">https://classroomscreen.com/</a>
  - · timer apps

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### **Proactive AT for Emotional Regulation (Calming)**

Support and strategies are available for managing emotions or sensations through visuals (& other methods) or through availability of breaks when needed

- · AT visuals or apps that assist in recognizing, understanding, and managing
  - Provide visual cues (written or pictures)

Facilitate the "Ready to Learn" State

learning, regardless of their interest or their abilities.

general emotional state, learning can be challenging

prevent or minimize a state of dysregulation.

to stay well-regulated and be ready to learn.

Students who are sensory or emotionally dysregulated will have difficulties

When we don't quite "feel right" either from the sensations around us or our

Consider AT to facilitate sensory and emotional regulation proactively to

Assistive technology tools and strategies can facilitate your students' ability

- Encourage calming strategies
  Social stories or AT tools to support/develop ability to self-monitor emotions
- Option to "reset" through breaks for brain breaks or movement breaks
- · Option to retreat to a different location when in extreme dysregulation or to prevent extreme dysregulation

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# **Proactive - AT for Emotional Regulation (Organizing)**

Certain sensations or actions can be calming and can organize one's ability to receive information; in the moment or supports available in a safe "break" location

- · Oral-motor sensory support:
  - · chewy foods/chewing- sugar-free gum, beef jerky, dried fruit, bagels, jello "jigglers"
  - · chewy tubes, "chewelry"
  - · Sucking-thick shakes, hard sugar-free candies & lollipops, twisty straws
  - · Vibration- electric tootbrush
- Relaxation Apps
- · Squeezing into small tight spaces
- · body sock, hammock-like seating, bean bag chairs

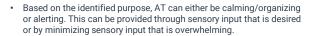




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### AT to Facilitate Sensory Regulation

- Auditory sound/hearing
- Olfactory smell
- Gustatory taste
- Tactile touch
- Vestibular movement
- Proprioception input from muscles and joints







### AT for Sensory Regulation - Visual Tools/Strategies

- Dim lights or lamps
- · Sheer coverings over fluorescent lights can use color to support identified needs
- · Sensory apps that provide caliming visual stimuli
- · Heat Pad HD- option to turn sound on/off
- Sensory Magma ...
- · Sensory Lightbox ...
- Sensory apps that provide calming visual stimuli
- · Aquariums, bubble tubes, lava lamps
- Covers over computer screens or calming screen savers
- Color schemes for visual needs (CVI, low vision, etc.)





### AT for Sensory Regulation -Touch, Fine Motor, Proprioceptive

- Tactile fidgets for sensory needs & moving hands in purposeful way
  - Bean bags, stress balls/shapes, bubble wrap, fidget pops
  - "fidget apps" on iOS, android
  - · Velcro, soft fabrics attached under desk



- · Flexible Seating for sensory needs · Wiggle/tactile cushions, vibroacoustic cushions/seating, stretchy therapeutic bands at feet
  - · Ball seats, Big Joe chair, couches, rocking chairs, swings
  - · laundry baskets

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• Weighted blankets, vests, stuffed animals, bean bags



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### AT for Sensory Regulation - Gross Movement

· Swings, hammocks

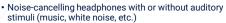
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- Crash Mats, trampolines
- Standing/walking with heavy items (backpacks, books)
- Movement breaks for gross motor
- · Stretching, dancing, exercising



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- · Sensory apps that provide calming auditory stimuli
- · Skoog accessible music-making device,
- · Soft materials/curtains to dampen sounds
- · Lower vocal volume and voice inflection
- · Moving to a quieter room

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### Include AT Tools or Strategies for a Purpose

When determining how to help your students self-regulate, identify the specific needs to determine an appropriate sensory support. Consult your OT when needed.

When emotional or behavioral challenges exist, ask what is the reason or cause? Anxiety, frustration, sensory needs, etc?

- What type of sensory input is needed or must be minimized/removed?
- Calming/Organizing, Alerting?
- · Visual or Auditory?

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- Tactile, Proprioceptive, Movement?
- · Olfactory/Smell or Taste?





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# GADoE/TFL Assistive Technology Partnership

AT Partnership began January 2020



- Online AT Portal developed to request AT Support for GA school districts, state schools, and LEAs
- •Request AT/UDL software tools for students with IEP's
  - •Request AT device demos or loans for 4-6 week trials
  - •Request technical assistance through "consultative collaboration" with district staff for their students
- EdTrade 2023 online database focused on AT Reuse between districts/LEAs

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AT Partnership Info - GADoE website





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### **Contact Us**

# Tools for Life, Georgia's **Assistive Technology Act**

### **Program**

Center for Inclusive Design and Innovation Georgia Institute of Technology 1-800-497-8665

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