



Transition & Beyond: Technology for Life

Ben and Pat Satterfield, Center for AT Excellence

www.c4atx.com

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**Reinventing Quality
August 1, 2016
3:30 PM to 5:00 PM**

www.amacusg.org

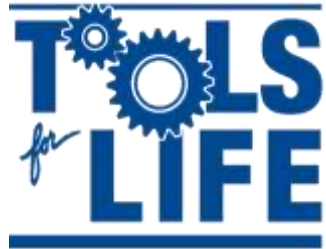


Goals for Transition & Beyond:

- Technology tools can help individuals with developmental disabilities achieve greater self-determination and independence.
- Communication and literacy are interconnected and can help individuals to have meaningful interactions in their community.
- Technology can help individuals with developmental disabilities take in information, understand their world, motivate them by giving greater access to their interests.
- Technology can support lifelong learning and employment options.



Pat Satterfield, MCE



AT Consultant/ Trainer
GA Tools for Life/AMAC
Georgia Institute of Technology



President, AT Consultant
Center for AT Excellence
Pat@center4ATexcellence.com



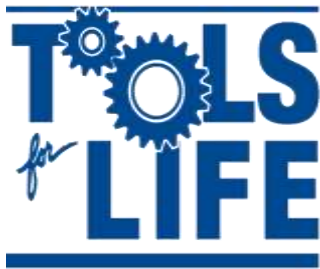
AT Consultant
Coordinator for Self-Determination
Project

- Communication
- Literacy





Ben Satterfield, ED.D.



AT Specialist/ Trainer/ Research Consultant
GA Tools for Life/AMAC
Georgia Institute of Technology
Ben@gatfl.org



Assistant Professor
Communication Sciences & Special
Education
College of Education, Univ. of Georgia
bsatt@uga.edu



Research Consultant
Center for AT Excellence
Ben@center4ATexcellence.com



Introductions

- Dunamis – an Assistive Technology company before that was a “thing”
 - 1984 – we started with an Apple IIe and a dream that technology might be powerful for those with disabilities....
- 1986 - Home providers for non-verbal young adult with a developmental disability
- 1991 – Parents of a son with Down Syndrome
- Providers of AT evaluations and training for teachers, parents, therapists, individuals
- Technology coordination for a center serving adults with DD

How Do You Use Technology?

- Phone
- Messaging
- Email
- Blogs
- Read and write
- Find information
- Advertise your business
- Search online for things you want



Defining Assistive Technology

Assistive technology – “Any item, piece of equipment, product system, whether acquired commercially, modified, or customized, that is used to increase, maintain, or improve functional capabilities of individuals with disabilities.”

Assistive technology service – “Any service that directly assists an individual with a disability in the selection, acquisition, or use of an assistive technology device.”

Public Law 108-364



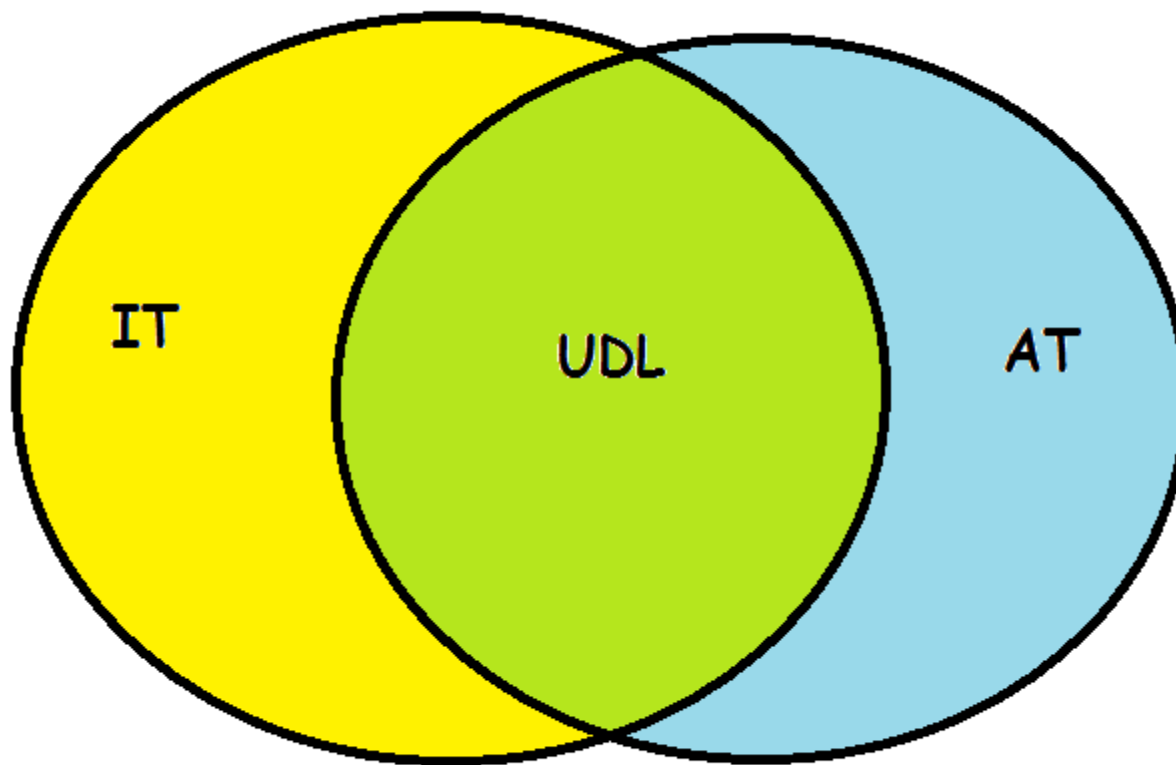
Why Assistive Technology?

For a person without a disability, technology makes things easier.

For a person with a disability, technology makes things possible.



AT that is now common....





Moving toward Universal Design

Previously

Add on touch screens

Software for screen
reading

Word Prediction
software

Now

Touch sensitive
technology included
Apps and Extensions

Screen reading
included online

Word prediction on
your phone

Tools for Life

We help Georgians with disabilities gain access to and acquisition of assistive technology devices and assistive technology services so they can live, learn, work, and play independently in the communities of their choice.



TFL Solution Site



- TRAINING
- FUNDING
- PUBLICATIONS
- TFL WIKI
- MEET THE TFL TEAM
- MEET THE ADVISORY COUNCIL
- DIRECTIONS/MAP
- JOIN OUR MAILING LIST
- SCHEDULE A TOUR

Welcome AT Services Try AT Get AT AT Guides Research



Welcome to Tools for Life

Tools for Life, Georgia's Assistive Technology Act Program, is dedicated to increasing access to and acquisition of assistive technology (AT) devices and services for Georgians of all ages and disabilities so they can live, learn, work and play independently and with greater freedom in communities of their choice.

Tools for Life and the TFL Network work collaboratively together to accomplish our mission through:

IDEAS CONFERENCE

JUN 2

Epworth by the Sea, St Simons Island

WEBINARS

MAY 28

[Georgia's Leadership Model for Increasing Accessible ICT in State Government](#)

JUN 25

[Learn More and Do More: Exploring Accessibility and Apps for Android](#)

JUL 30

[Position for Work: A Closer Look at Workplace Accommodations & Assessments](#)

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TOOLS FOR LIFE APPFINDER



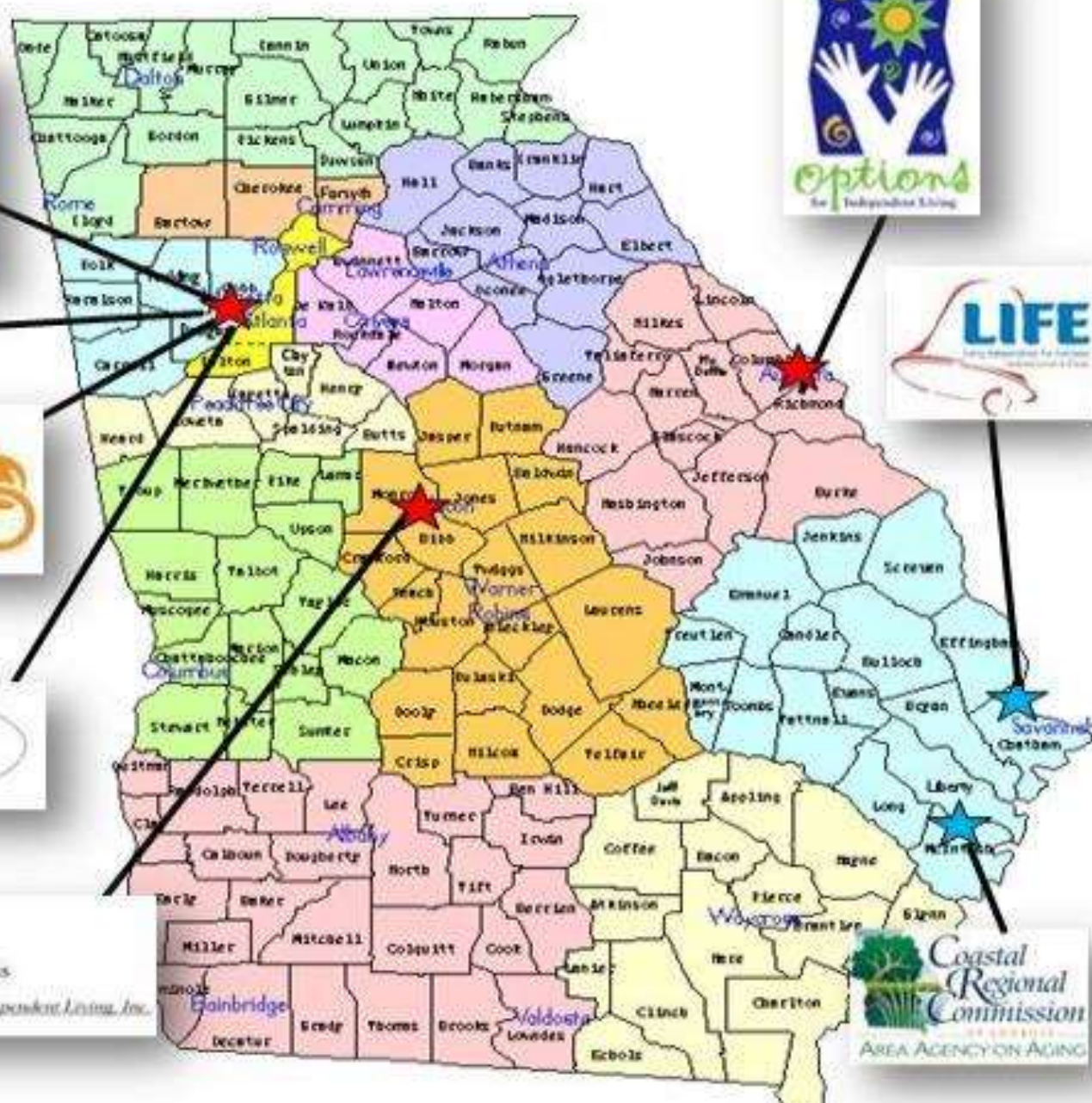
...for Living, Learning, Working, and Playing.

AT ONLINE EXCHANGE





Georgia's Assistive
Technology Act Program



Aging and DBHDD Project

TFL is collaborating with GA DBHDD to provide Assistive Technology evaluations and equipment to those who are on our Medicaid Waiver waiting lists.

TFL is supporting the work of the ADRCs in GA by providing AT Tool Kits and training for their staff. Focus is on transitions and aging in place.





Hi Hope Service Center

- Adult Day Program for ~120 individuals with developmental disabilities, ages 22-75
- 5 Residential facilities
- Employment

Strategic Plan includes:

1. Communication
2. Employment First
3. Access to the Community
4. Access to Services via Many Pathways

Hi Hope Service Center, cont'd

- Culture of Communication
 - Sign language, Symbols, Communication device
 - Honor the person's mode of communication
 - Everywhere, All the Time, with Everyone
- Person-Centered Planning
- Community Connections



Hi Hope Service Center, more

- Employment for Individuals with Significant Disabilities Pilot Project
- Curriculum for when Individuals are not in the Community
 - Literacy
 - Safety and Personal Rights and Responsibilities
 - Health and Wellness
 - Seasonal Topics and Current Events
 - Daily Living Skills
 - Social/Behavior Support
 - Partnership with the local school district for transition planning and the use of our safety and rights curriculum.

What makes a good life?

A young adult with a developmental disability...

- Lives with his family
- Works two days at minimum wage – 10 hours/week
- Works one/two days as a volunteer – 3-6 hours/week
- Church member and volunteer
- Plays softball, basketball, and tennis through Special Olympics
- Member of a community theatre group, acting on stage!
- Dreams – go to college, own a Google car, live independently

Questions for Blake

- What does technology help you to do every day?
- What tools do you use?
 - Kindle, iPad, mini
 - Chromebook/gmail
 - Phone
 - ECHO



Family Challenges



- Friends
- Government Red Tape
- Transportation!
- Health
- Working on cooking, shopping, money



National Core Indicators

Individual Outcomes

- Community Inclusion
- Work
- Relationships
- Satisfaction
- Choice and Decision-Making
- Self-Determination

Health, Safety, Rights

- Safety
- Health
- Medications
- Wellness
- Restraints
- Respect/Rights

Different Supports for Different Folks

- KK, 46, Significant Intellectual Disability
 - Non-verbal, but uses some sign language
- KE, 21, High IQ, in college
 - Uses Eye Gaze Technology with Comm Device
 - Uses a motorized wheelchair
- JG, 24, Autism
 - Can speak but usually does not, reads, moves constantly
- ER, 32, Hearing Impairment and Mild Intellectual Disability
 - Uses sign, symbols, and iPad for Communication
- AN, 60, Moderate Intellectual Disability
 - Uses a wheelchair, speech is limited



Technology and Transitions: Planning Ahead

- Communication
- Activities of Daily Living
- Cognitive Support
- Literacy
- Lifelong Learning
- Employment
- Organization
- Community Connections

Communication is Foundational

NovaChat



Low Tech Wallets
and Notebooks



GoTalk



Big Mack
Step-by-Step

Prologue2Go



Continuum of Communication Tools

Low Tech

Pictures and Symbols

Communication boards, wallets, rings etc.



Mid Tech

Single Message

Sequenced Messages

Direct Selection Devices



Tech Speak

High Tech

Dynamic Display

Icon Sequencing

Tablet with Apps



NovaChat

Apps for Communication

- Prologue2Go
- Sonocent (Lite)
- TouchChat
- Avaz
- Autismate



Using Core Words

I	it	who	what	when	again	now	that	this	trouble
									
me - myself	my - mine	not	come	do - does - did	ready	how	finished	all gone	bad
									
you - your	drink	eat	get	give	go	where	big	different	good
									
hear / listen	help	like	look / see	make	put	away	happy	little	more
									
say / tell	stop	take	turn	want	here	there	sad	sick	silly
									

Activities of Daily Living



FitBit



OneTouch



MyShopi app



ShakeNWake



Cognitive Support

Helping to Build Independence for :

- Individuals with Intellectual and Developmental Disabilities
- Individuals with Traumatic Brain Injury
- Individuals experiencing problems with memory
- Individuals learning a new task

Functions of Cognitive Support

- Alert a person
- Give information in manageable increments
- Give personalized directions
- Give feedback about performance

Cognitive Support Environments

Environments that may require Cognitive Support

- Academics
- Computer Use
- Community Inclusion
- Community Living
 - Leisure
 - Employment
 - Communication
- Self-regulation
- Mobility
- Environmental Control



Low Tech Cognitive Support

Low Tech Cognitive Support: for grocery store clerk with DD



Good



Reduce Price



Remove

Cognitive Prompting

Visual Impact



Choiceworks



Clarity Phone



Autismate

Phonemic Awareness and Phonics

- HearBuilder or Earobics – computer activity that will help to increase listening skills, sound discrimination, auditory memory, following directions.
- Simon Sounds It Out
- Classroom Suite – created in collaboration with Florida Center for Reading Research and includes phonemic awareness and phonics activities



Phonemic Awareness and Phonics, cont'd

Apps:

- Reading Raven
- Interactive Alphabet
- Word Wizard
- Simplex Spelling Phonics – Rhyming With CVC Words
- ABC Shakedown
- Hooked on Phonics
- Starfall
- Phonics Genius



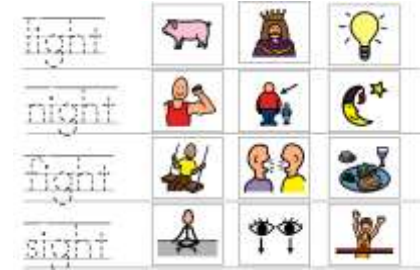
Word Magic

(<http://www.teacherswithapps.com/best-phonics-apps/>)

Sight Word Instruction

For most students - High Frequency Words

For some students - Word Families, Sight Words,
Picture-supported Text



Boardmaker
activities

Low Tech: Boardmaker word families activities

<http://www.sightwordsgame.com/>

Software: Edmark, Sentence Master, PixWriter

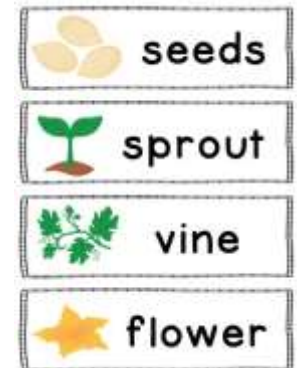
Apps: Sight Word Adventure, Sight Words List, Sight Words,
Learn Sight Words, Sight Words by Little Speller

(<http://rachelktutoring.com/blog/free-sight-word-apps/>)



Vocabulary Instruction

Low Tech : Graphic Organizers, charts with visuals, flashcards with visuals



Mid Tech: Handheld Dictionary, Reading Pen



Action Words app



High Tech: Electronic Dictionary –
in Advanced Reading Aid
Online Dictionary and Thesaurus
Apps: Vocabulary Builder, Action
Words, Bluster!, Word Games for
Kids - Futaba



Reading Comprehension

NewsELA



Start to Finish Books



Readability app



KNFB



Text Complexity

Gain control over complex passages by adjusting text complexity on-the-fly. Challenging vocabulary is instantly simplified. Toggle between original and modified words.

From This...

2. You come by your style by learning what to leave out. At first you tend to overwrite—artistic additions instead of insight. You either continue to write poetic blarney, or you change. In the process of simplifying oneself, one often discovers the thing called voice.

Quote from — Billy Collins

To This...

2. You come by your style by learning what to leave out. At first you tend to overwrite—artistic additions instead of understanding of deep things. You either continue to write childish/foolish talk, or you change. In the process of simplifying oneself, one often discovers the thing called voice.

Quote from — Billy Collins

Supported Reading

Screen Readers

KNFB reader on a handheld device

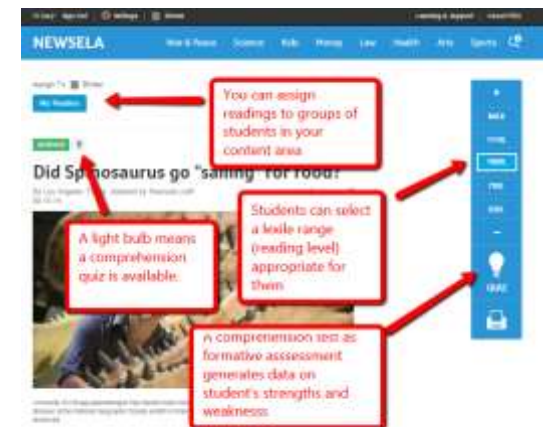
Programs that can change Lexile Level
(Rewordify, Snap and Read, News ELA)

Advanced Reading Aids that have dictionary

Translation

Study Skills built-in

Start to Finish



Many Ways to Write

- Low Tech:
Pencil Grips, Alternative Writing Instruments, Different Types of Papers, Slant Board, Using Symbols or Whole Words to Retell a Story
- Mid Tech:
Portable Word Processor, iPad or other Tablet, Alternate Keyboards, Braille



The Writing Process

Talking Word Processor, Talking Spell Checker, Word Lists, Word Prediction, Voice Recognition (Speech to Text), Grammar Check

Dragon or built-in Voice Recognition, Write:OutLoud, Classroom Suite, Clicker 7, PixWriter, First Author, Kurzweil 3000, TextHelp Read and Write Gold, Co:Writer Universal, WordQ, Grammarly

Clicker 7



Pixwriter



Ginger

Writing

Evo Pen



IntelliKeys



CoWriter



Big Keys

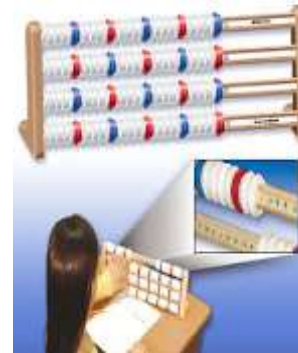


Slant Board

Math: Adapted Math Tools

- Mathline
- Pouring Cup
- Talking Tape Measure
- Talking Measuring Cup
- Crayola Audio Ruler
- Coin-u-lator
- MoneyCalc

Mathline



Coin-U-lator



Talking Tools



Employment



Watch with Alarms



JAWS

5-Point Scale (Anxiety)

	Feels Like	What I can do
5	I'm going to breakdown (cry, begin pacing and bang my head.	I can leave the room with permission and go to home base.
4	My stomach is starting to hurt and I'm having difficulty concentrating.	I can ask to talk privately to an adult. I can listen to my iPod with calming music (headphones).
3	I'm feeling uneasy and I'm starting to sweat.	I can refer to my coping cards and use deep breathing.
2	I feel ok. I can handle the situation.	Self-talk and reassure myself that I can do it!
1	I feel great. No problem!	

Adapted from Barrow & Curtis, 2003

Sit to Stand Desk



Vertical Mouse



Organization

Step 1

Step 2

Step 3

Step 4

Step 5

Morning Group

 The day is:

Monday Tuesday Wednesday Thursday Friday

 The month is:

January February March April
May June July August
September October November December


Today I have,

gym class	library	special	playground
cooking	speech therapy	music	community trip
assembly	art	sports	games

Boardmaker
organizer



Color coding



Connected In the Community



Wayfinder



Google Glasses



Kubi Telepresence



Amazon ECHO

Constant Innovation



Voice Stick for the
Visually Impaired



Augmented Reality



Milo

Funding Options

- Alternative Funding Programs
 - Credit-Able
- Reuse
 - www.passitoncenter.org
 - Durable Medical Equipment
 - FODAC
- ABLE Act
 - Savings accounts for major purchases

Guiding Principles



- We, collectively, are brilliant and can find innovative paths and create brighter futures.
- We must think, live, and act from a place of abundance. We do have enough time, money and resources.
- We must focus on abilities.



**How could technology help the
individuals you serve?**

Keep the Conversation Going



Pat Satterfield, MCE

President, Center for AT Excellence

AT Consultant/ Trainer

Pat@c4atx.com



Ben Satterfield, Ed.D.

Research Consultant & AT Consultant

Ben@c4atx.com

Disclaimer

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