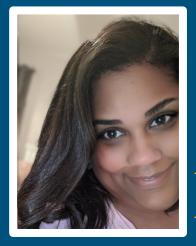
DIY Assistive Technology for the New Normal

AbleNet Inc., March 2021



Greetings from South Carolina! Rachell Johnson, MCD CCC-SLP

AT Team Lead

Florence One Schools/Stepping Stones Group

Virtual AT consultant with the MN Technology For Home Program



Hello from Minnesota!

Barb Kelii MA OTR/L

Occupational Therapist with Mounds View Public Schools Independent Assistive Technology Consultant

Speaker disclosures

Rachell Johnson is receiving financial compensation from AbleNet Inc. for this presentation.

Barb Kelii is receiving financial compensation from AbleNet Inc. for this presentation.

This presentation contains products that can be purchased in most cities and towns at "Dollar" stores, local markets OR thru internet merchants such as Amazon. Some links are provided to sites where purchases can be made. The presenters have no affiliation with nor receive any financial compensation if you choose to purchase any of the items discussed in this presentation.

Learning Objectives

Participants will:

- Identify and locate at least 3 DIY resources
- Gain insight into the usefulness of DIY technology for e-learning, distance education, and virtual AT services
- View DIY tech examples to utilize in their day-to-day practice

Session Outline

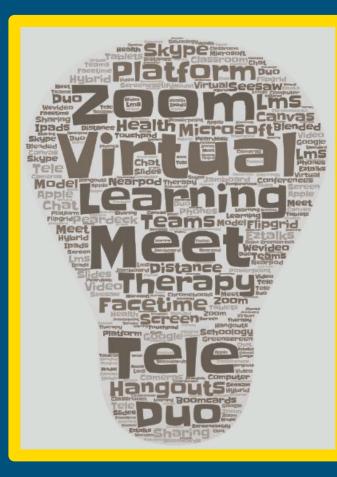
- Why DIY?
- DIY for virtual AT assessments
 - Computer access
 - Remote access
 - Working with multiple devices
- DIY for distance learning and teletherapy
 - Communication and participation
 - Written expression and Literacy
- Other DIY resources for your toolbox

*our handout is the full presentation and we added as many links as we could!



DIY AT

Why is it needed? What are the challenges?



The New Normal

What did we learn?

CAST

Center on Inclusive Technology & Education Systems

Leadership

Infrastructure
Teaching
Learning
Assessment
More

Framing the Future of Learning with Technology

What works when bringing together education technology (EdTech), information technology (InfoTech) and assistive technology (AT) for students with disabilities? CITES, the Center on Inclusive Technology & Education Systems, is partnering with school districts from across the country to answer that question. What we learn will inform the development of the CITES Framework of evidence-based practices for creating and sustaining inclusive technology ecosystems in school districts.

What's New?



COVID-19 Resources > With an emphasis on remote learning



Leadership Stories > Learn more about inclusive technology



Why DIY?

Funding

There are some Edtech companies that offered free software at the start of the Pandemic, but during this school year all those wonderful things cost.

Supply vs. Demand

Need for accessible materials > school resources <u>New School Models</u> E-learning Hybrid Pop-up Virtual Schools/Academies

Is DIY in the AT definition?

• The <u>Individuals with Disabilities Education Act (IDEA)</u> defines AT as "any item, piece of equipment or product system, whether acquired commercially off the shelf, modified or customized, used to increase, maintain, or improve the functional capabilities of a child with a disability."

How can I overcome barriers?





Virtual AT services

AT Assessments

Computer Access



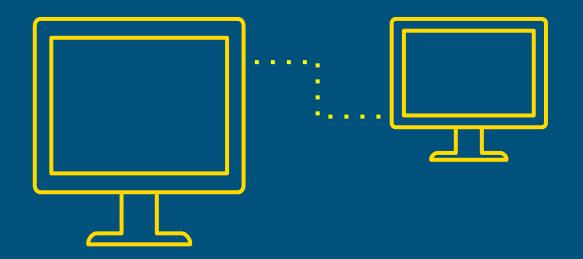
Head Trackers

Camera Mouse

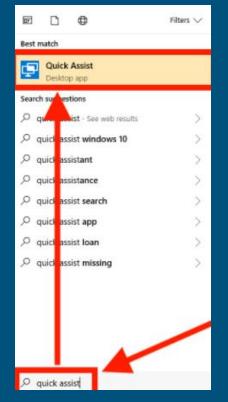
Innovative software for people with disabilities



Remote Access



Windows 10 Quick Assist



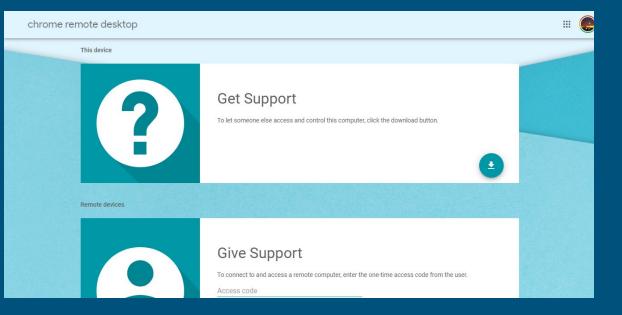
A therapist or teacher can use this to gain access to another Windows 10 device.



Chrome Remote Desktop

A therapist or teacher can use this to gain access to another device that is using Chrome as a browser.





Other Remote Access Methods

- Teamviewer
- <u>Zoom</u>
- <u>Microsoft Teams</u>
 <u>"Give Control"</u>



Use your virtual meeting platform **screen sharing** function to view your client's screen.

- -Therapist view
- -Coaching

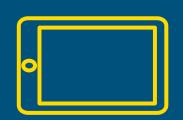


Working with Multiple Devices









Using Multiple Devices

<u>Cost alternative:</u> <u>Jmount by</u> <u>Communicare</u>

Off the shelf phone holder! Great for parents and therapist to use together to provide a view of the AAC device!



Consider what you already own!



Don't forget about items you might have tucked in a closet!

You can swap out the mount plate from your camera for a phone or tablet mount!

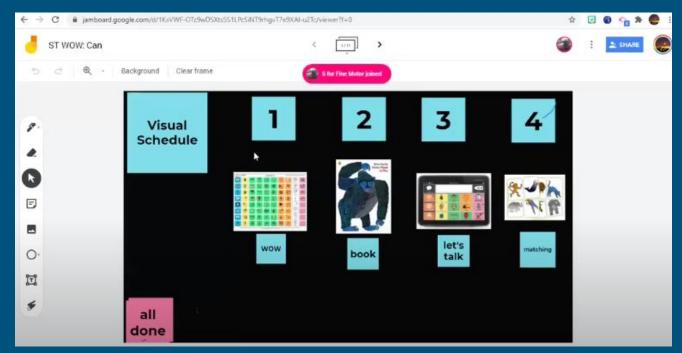
Distance Learning and

Teletherapy Resources

Digital Resources



Jamboard



A free app in the Google Workspace for Education tools for computer, tablet, or iOS.

You can Jam a physical activity





Jamboard can be used as a teletherapy tool when working with speech, OT, and PT students.

Green Screen Therapy







To DIY

- use green felt, paper, or curtain/shower curtain
- make sure your manipulatives are made with an exact green color match
- Use free backgrounds and felt pieces from <u>Play</u>
 <u>Spark</u>

Free Google Tools



Google Slides

- Bitmoji <u>Classrooms</u>
- <u>Video/AAC modeling</u>
- <u>Ready made-CVI resources</u>
- <u>Create your own-CVI Slides</u>
- <u>Drag and drop activities</u>

Google Docs

- <u>Voice Typing</u>
- <u>Explore Tools/Image Search</u>

Additional Google Resources

Communication and Participation



Recordable Buttons



See the completed A-Z <u>Keep</u> <u>Talking Poster</u> from Call Scotland

Amazon Recordable Talking Button

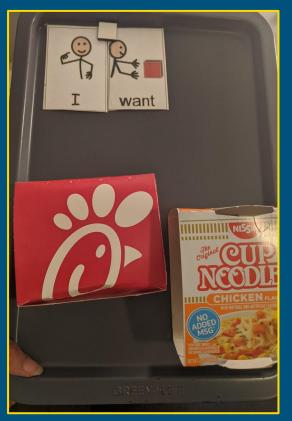
- 30 seconds of recording time
- Affordable \$10-\$12
- Easy to replace
- Vocabulary of the week
- Repetition in stories

Communication at Home



Use your fridge as a communication board Add food choices **Use product wrappers** to represent real objects Use photos or print them from online.

Easy Communication at Home



Use a cookie sheet to make a magnetic object choice board.

Use product wrappers to represent real objects

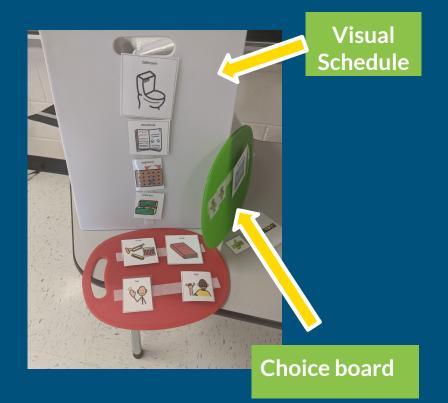
Consider the size; more options with smaller objects.

Home Made Boards

Behavior Token Board

- Dollar store cutting board with handle
- Velcro
- Picture Symbols





Communication Boards



Enlarge a picture board at photo center

Use with a laser pointer

Be creative with your placement!

Laser Pointer Under \$5

• Dollar Store Laser Pointers and Eyeglasses versus very expensive Laser Pointer





Laser Pointers

- Switch adapted laser pointers cost \$129.00+
 - An alternative by RJ Cooper cost \$ 29.99

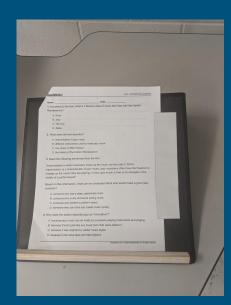


Literacy & Written Expression



<u>3-Ring Binder Slant Board</u>







- 3-4 inch binder
- Paper clips
- Magnetic sheet
- Magnetic strip
- Velcro
- Small piece of wood for the lip

Pool Noodle Pencil Grips!



They are so soft, easy to make different sizes, and can be used with Right or Left handers!

Document Camera





IPEVO Mirror Cam 6-pack for \$39.99

Adapted Writing

Materials:

• Business card sheet protector

• Picture symbols No need for glue or velcro.

> Use a symbol word bank.

Snap into a binder. Make multiple sheets to create:

- paragraphs
- Stories

 Book reports

snowmer sledding thev skating playing are thev are

You can reuse symbols for other writing assignments.

Pool Noodle letters!



Alphabet order, Name building, CVC and sight words!

DIY Wireless Switch



• Wireless mouse

3 Back

- Small box or sandwich
 - container
- Sponge
- Velcro
- Scissors

- Cause and effect activities
- Page turning
- In combination with partner assisted scanning



I like dogs. These dogs are waiting.

Next

What would you like to do now?

Read this book again.	
Rate this book.	
Read another book.	

Screenshots from Tarheelreader.org



Other Items for your ToolBox

Floral Foam for Positioning



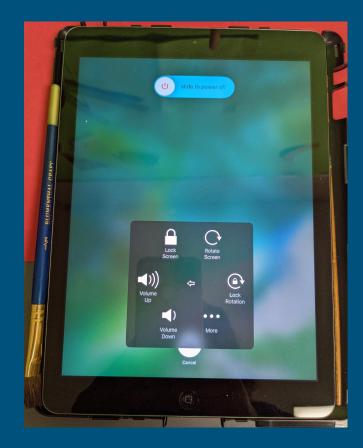




Make stands for tablets and phones! So easy to cut and shape! These are covered in Press 'N Seal to keep the foam from getting green flakes everywhere!

Use for tablets or phones

Think Outside the Box



Be creative while using safe and available materials

Paintbrushes+assistive touch becomes a quick fix in an emergency for an ill-fitted case.

<u>Chrome</u> <u>Music</u> <u>Lab</u>

- Several different activities to do
- Use it with a touch screen or mouse
- Have the student present their screen and you can see them writing.
- Or Use use a tablet or phone positioner idea







• Home DIY

- Activity Sheets
- Movement

BE ACTI	VE KIDS [®]	🍾 (919) 287 🖂 info@bea	
FOR TRAINERS	BE ACTIVE AT SCHOOL / CHILDCARE	BE ACTIVE AT HOME	BE ACTIVE IN THE COMMUNITY
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DIY IDEAS			NAVIGATION
		H ACTOR IS	RESOURCES
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<u>Pediatrics</u> <u>Plus</u>

Home therapy blog

• PTs

• OTs

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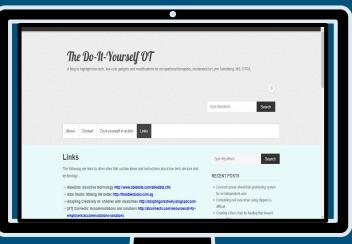
• Speech



<u>The</u> Do It Yourself



 Website links
 How to Resources





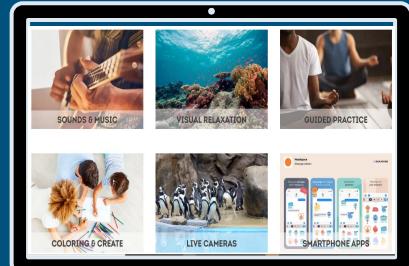
<u>Eat</u> Speak Think

- Free low tech picture symbols
- Multilingual resources
- Lots to explore!

An SLP writes about swallowing, communication, and cognition	
	Serch. Gr RECENT POSTS Why I sometimes recommend brain- training games My patient improved corversation why ARCS

Virtual Calming Rooms & Apps

- Sound
- Visual
- YogaHelpful links
- Home or School use



Rosemount Apple Valley Eagan ISD 196 Virtual Calming Room

Osseo Area Learning Center Virtual Calming Room

Mindpowerful powers app for kids

Other Literacy Resources

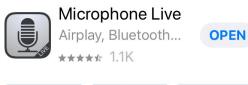
- <u>Story Jumper</u>
- Book Creator
- LessonPix
- <u>Boardmaker Student Center</u>

Students can use during speech therapy while maintaining social distance!

Voice Amplifiers

Teachers! Save your voice and let your students hear you better while wearng a mask! <u>Click here for an example of</u> <u>how an amplifier sounds</u> <u>while wearing a mask.</u>

DIY Voice Amplifiers





Can use other bluetooth mics/headsets, or lapel mics. Check how it works with a mask on!



Portable Bluetooth Speaker \$10 and up!

Tactile Cues





Use cabinet door bumpers as tactile cues for a mouse and/or keyboard.

External Trackpad



These handy add-on hardware devices can help solve both positioning and computer access problems!

<u>SUGRU</u> <u>Mouldable</u> <u>Glue</u>







Check out our Wakelet!



DIY AT & AT Resources <u>https://wakelet.com/@DIY_AT_and_AT_Resources4821</u>





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Credits

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by <u>SlidesCarnival</u>
- Photographs by <u>Unsplash</u>
- Backgrounds by <u>SubtlePatterns</u>