







Assistive Technology to Enhance Communication Access for Students who are Deaf or Hard of Hearing¹

Technology	Rationale/Purpose	Ordering Information
<p>Remote microphone hearing assistance technology system (i.e., FM/DM systems with microphone and receiver, streaming microphones)</p> 	<ul style="list-style-type: none"> • Improves speech signal delivered through computer by giving student direct audio streaming • Eliminates background noise in student's environment • Improves speech signal in distance 	<p>See your district educational audiologist for appropriate equipment options, ordering and fitting.</p>
<p>Computer microphone for teacher</p> 	<ul style="list-style-type: none"> • Eliminates background noise from teacher's environment 	<p>Amazon or other site/store</p>
<p>Headphones: padded earphones that cover the ear</p> 	<ul style="list-style-type: none"> • Helps students focus – especially for with APD or students who do not wear hearing aids; • Some students may be able to use them with their hearing aids in which case a larger earpad may be needed. 	<p>Amazon, Walmart or other site/store</p>

¹ Prepared by ATN Leadership Team, 5.5.20; updated 5.27.20

<p>Splitter for earphone jack</p> 	<ul style="list-style-type: none"> • Allow parents for 2 earphones to be plugged into so that parents can listen to lessons 	<p>Amazon, Walmart or other site/store</p>
<p>IPad or Chromebook technology for all students including preschool</p>	<ul style="list-style-type: none"> • Technology to access remote learning 	
<p>WI-FI Hot Spot</p>	<ul style="list-style-type: none"> • Provide access to internet 	<p>Internet provider</p>
<p>Remote captioning and speech to text options</p>	<p>Captioning and transcriptions are generally provided “live” through Communication Access Realtime Translation (CART) services. (captioner may be in-person or remote). Captioning can also be added post-production (i.e., added after a recording or video is made). These CART options provide the most accurate transcription. Speech-to-text programs and applications provide immediate automated captioning for live voice. However, the accuracy of these applications varies due to factors such as the speaker’s voice clarity, accents, and background noise. When used, look for programs that add punctuation and self-correct grammar as well as other formatting options that render the transcripts more readable. The readiness of the user to benefit from captioning (e.g., reading level, processing time, attention) must also be considered.</p> <p>https://alltogethernownh.com/resources/ https://connect-hear.com</p>	
<p>Programs for inserting ASL into ppts (e.g., Loom)</p>	<p>Access to ASL should be embedded into any media used for instructional purposes</p>	<p>https://alltogethernownh.files.wordpress.com/2020/04/screen-capture-procedures-dhh.pdf</p>
<p>Masks/Shields with clear view of mouth and/or face</p>		
<p>Rationale: Required for access to facial and speechreading cues; clear portion of mask needs to be large enough to allow for full face view; shields need to go from ear to ear and extend below chin</p> <p>Opportunities:</p> <ul style="list-style-type: none"> • Many groups (e.g., interpreters, audiologist, parents) are making homemade masks with windows • Shields are reusable, are easily washed; more comfortable and provide full face view <p>Challenges:</p> <ul style="list-style-type: none"> • Home-made version tends to fog up- use Dawn dishwashing liquid to reduce fogging • Masks should not attach around the ears as they interfere with hearing aids, cochlear implants, and some bone anchored hearing systems • For students who use remote microphone hearing assistance technology, the integrity of the remote microphone transmission of the speaker’s voice through the fabric or plastic must be assessed 		

Home-made mask



Clear-View Window Mask

<https://safenclear.com/product/clear-view-window-mask/>



Clear Mask

- <https://www.theclearmask.com/product> Clear Mask is the mask of choice but they are not made in children’s sizes, cost is \$2.50/mask
- Extended use – though not FDA approved for cleaning, it is assumed the masks would be provided individually to students for extended use from 1 wk to 1 mo with daily cleaning/sanitizing (washing and UV-C)



ADCO Hearing Products, based in Colorado, is making masks that are specific to accommodating cochlear implants, hearing aids as well as a clear view option



<https://adcohearing.com/collections/adco-brand-masks>

Oaktree Products
Shield
#DMSHIELD
\$6.00



www.oaktreeproducts.com

Oaktree Products **Shield**
#B56987 \$10.75
www.oaktreeproducts.com

