



Severe Disabilities

how to teach

COURSE
enhancement
MODULE

Technology

Objectives

The participant will-

1. Identify types of assistive technology and plan when to use AT
2. Develop computer-assisted instruction and interactive whiteboard applications
3. Apply prior learning to technology plan (e.g., how will prompt)
4. Plan for generalization

Background Readings

- Knight, V., McKissick, B. R., & Saunders, A. (2013). A review of technology-based interventions to teach academic skills to students with autism spectrum disorder. *Journal of Autism and Developmental Disorders*. Advanced online publication. Doi: 10.1007/s10803-013-1814-y
- Mechling, L. C., & Ortega-Hurndon, F. (2007). Computer-based video instruction to teach young adults with moderate intellectual disabilities to perform multiple step job tasks in a generalized setting. *Education and Training in Developmental Disabilities, 42*(1), 24–37.
- Pennington, R. C. (2010). Computer-assisted instruction for teaching academic skills to students with autism spectrum disorders: A review of literature. *Focus on Autism and Other Developmental Disabilities, 25*(4), 239–248.
- Ramdoss, S., Machalicek, W., Rispoli, M., Mulloy, A., Lang, R., & O'Reilly, M. (2012). Computer-based interventions to improve social and emotional skills in individuals with autism spectrum disorders: A systematic review. *Developmental Neurorehabilitation, 15*(2), 119–135.
- Reichle, J. (2011). Evaluating assistive technology in the education of persons with severe disabilities. *Journal of Behavioral Education, 20*, 77-85.
- Riffel, L. A., Wehmeyer, M. L., Turnbull, A. P., Davies, D., Stock, S., & Fisher, S. (2005). Promoting independent performance of transition-related tasks using a palmtop PC-based self-directed visual and auditory prompting system. *Journal of Special Education Technology, 20*, 5–14.

Materials for Participants

Technology to access the internet

A tablet (e.g., iPad) with sample applications that can be used for students with disabilities; SMARTboard and examples.

PowerPoint on Technology. (not provided; can be developed using background readings).

Suggested Software and Aps to Feature

- Catalyst Client
- TallyCounter
- SPED eCOVE Observation
- My Autism Day
- SMARTNotebook App
- Clicker Software (Clicker 6) or Apps (Clicker Sentences)
- Educreation
- Ideasketch
- Storykit
- Writeaboutit
- ShowMe
- Go Talk
- BookBuilder
- Bitsboard
- Gutenberg.org
- Tap2Talk
- UDL Classrooms at Wordpress
- Proloquo2go
- Quizlet
- Autism Apps
- Kidspiration
- Discovery Education

Activities

Attention Getter: Begin by showing one of the aps you will explore in more detail. For example, there are free examples TeachingwithSmartboard.com.

Powerpoint presentation: Provide the powerpoint presentation you developed emphasizing that research provides support for the effectiveness of using technology in teaching students with moderate and severe disabilities.

Applications: From the above list, locate which have free trial use or examples on their website. Have the participants go to the sites to find: (a) an application that will be useful in creating a communication system, (b) something that could be used to help present text in an electronic format, and (c) a site students might use for self-instruction. (Helpful hint: You can organize the websites you want them to explore for these aps using www.Pearltrees.com. The participants log into this website and it will give branches to the sites you want them to explore).