

SERC Library: Topical Literature Search

Assistive Technology and Universal Design for Learning: Supporting Students with Specific Learning Disabilities in Inclusive Classrooms November 2017

This resource guide includes references to current research articles pulled from literature and the Library's educational database service for schools, programs, service providers and families to increase their awareness of ways in which assistive technology is being successfully integrated with instruction to support the educational needs of students with specific learning disabilities. It should be noted that it does not represent the full scope of resources and information available on this topic nor serve as an endorsement of any particular resource.

Introductory Article:

Use of Assistive Technology in Inclusive Education: Making Room for Diverse Learning Needs

Fonzia K. Ahmad (2015).

Use of Assistive Technology in Inclusive Education: Making Room for Diverse Learning Needs. *Transcience*, 6(2), 62-77.

The author of this article advocates for the necessity for researchers, practitioners, and other educational stakeholders to identify ways to encourage the development of tools and strategies for technology integration, and to work together on issues surrounding the use of technology for effective inclusion of students with disabilities within the general education environment, ensuring that they are entitled to the same high standards and effective instruction that is available to non-disabled students.

For the proper and optimum use of assistive devices, it is essential to ensure *need-based assessment* – considering the applicability of the technology and its effectiveness; *a sound development plan* – ensuring student centered goals and proper identification in the plan of the devices needed; *successful implementation* – through an action oriented approach to check the feasibility and effectiveness of the technology; along with *effective monitoring and periodic review*.

To learn more: https://www2.hu-berlin.de/transcience/Vol6 No2 62 77.pdf

For access to additional educational resources available through the SERC Library from its electronic journal database service and topical research LibGuides as well as in-person from the various instructional, assessment and other collections, please consider becoming a Library member. Membership is free and you can join online by following the link provided below.



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List of Sources:

- Fink, R. (2017). Rap and Technology Teach the Art of Argument.

 Learning Disabilities -- A Contemporary Journal, 15(1), 39.
- Hall, T. E., Cohen, N., Vue, G., & Ganley, P. (2015). Addressing Learning Disabilities With UDL and Technology: Strategic Reader. *Learning Disability Quarterly*, 38(2), 72-83.
- Kaur, D., Koval, A., & Chaney, H. (2017). Potential of Using iPad as a Supplement to Teach Math to Students with Learning Disabilities. *International Journal Of Research In Education And Science*, 3(1), 114-121.
- Marino, M. T., Gotch, C. M., Israel, M., Vasquez, E., Basham, J. D., & Becht, K. (2014). UDL in the Middle School Science Classroom: Can Video Games and Alternative Text Heighten Engagement and Learning for Students With Learning Disabilities?. *Learning Disability Quarterly*, 37(2), 87-99.
- McMahon, D., Wright, R., Cihak, D., Moore, T., & Lamb, R. (2016).

 Podcasts on Mobile Devices as a Read-Aloud Testing

 Accommodation in Middle School Science Assessment.

 Journal Of Science Education & Technology, 25(2), 263.

 doi:10.1007/s10956-015-9591-3
- Min Wook, O., & Bryant, D. P. (2016). Effects of a Strategic Intervention With iPad Practice on the Multiplication Fact Performance of Fifth-Grade Students With Learning Disabilities. *Learning Disability Quarterly*, 39(3), 146-158.
- Patti, A. L., & Garland, K. V. (2015). Smartpen Applications for Meeting the Needs of Students With Learning Disabilities in Inclusive Classrooms. *Journal Of Special Education Technology*, 30(4), 238-244. doi:10.1177/0162643415623025
- Vue, G., Hall, T. E., Robinson, K., Ganley, P., Elizalde, E., & Graham, S. (2016). Informing Understanding of Young Students' Writing Challenges and Opportunities: Insights From the Development of a Digital Writing Tool That Supports Students With Learning Disabilities. Learning Disability Quarterly, 39(2), 83-94.
- Zascavage, V., & Winterman, K. G. (2009). What Middle School Educators Should Know about Assistive Technology and Universal Design for Learning. *Middle School Journal*, 40(4), 46-52.

Links to Information

Addressing Learning Disabilities With UDL and Technology: Strategic Reader

http://search.ebscohost.com/login.aspx?direct=true&db=pbh&AN=101812116&site=eds-live&scope=site

Effects of a Strategic Intervention With iPad Practice on the Multiplication Fact Performance of Fifth-Grade Students With Learning Disabilities

http://search.ebscohost.com/login.aspx?direct=true&db=tfh&AN=116950799&site=eds-live&scope=site

Informing Understanding of Young Students'
Writing Challenges and Opportunities: Insights From
the Development of a Digital Writing Tool That Supports
Students With Learning Disabilities

http://search.ebscohost.com/login.aspx?direct=true&db= pbh&AN=114726237&site=eds-live&scope=site

Podcasts on Mobile Devices as a Read-aloud Testing Accommodation in Middle School Science Assessment

http://search.ebscohost.com/login.aspx?direct=true&db=edb&AN=113610285&site=eds-live&scope=site

Potential of Using iPad as a Supplement to Teach Math to Students with Learning Disabilities

http://search.ebscohost.com/login.aspx?direct=true&db=eric&AN=EJ1126733&site=eds-live&scope=site

Rap and Technology Teach the Art of Argument http://search.ebscohost.com/login.aspx?direct=true&db= mfi&AN=123019078&site=eds-live&scope=site

Smartpen Applications for Meeting the Needs of Students With Learning Disabilities in Inclusive Classrooms

http://search.ebscohost.com/login.aspx?direct=true&db=ehh&AN=112758605&site=eds-live&scope=site

UDL in the Middle School Science Classroom: Can Video Games and Alternative Text Heighten Engagement and Learning for Students With Learning Disabilities? http://search.ebscohost.com/login.aspx?direct=true&db=tfh&AN=95517100&site=eds-live&scope=site

What Middle School Educators Should Know about Assistive Technology and Universal Design for Learning

http://search.ebscohost.com/login.aspx?direct=true&db=ehh&AN=36630606&site=eds-live&scope=site

Please note that the SERC Library makes available for loan a collection of assistive technology tools and devices that include a small number of iPads and Chromebooks through which a borrower can try out and gauge the usefulness of a particular resource.