

types of assistive technology for students with disabilities

Types of Assistive Technology for Students with Disabilities

Types of assistive technology for students with disabilities play an essential role in leveling the educational playing field. These tools and devices enable learners who face physical, sensory, cognitive, or learning challenges to access the curriculum, communicate effectively, and demonstrate their knowledge with confidence. Whether it's a child struggling with reading difficulties or a student navigating mobility impairments, assistive technology offers tailored support that fosters independence and inclusion in the classroom.

Understanding the wide range of assistive technology available helps educators, parents, and students themselves make informed decisions about what might work best for each individual's needs. With innovations evolving rapidly, the landscape of assistive devices is expanding beyond traditional aids to include sophisticated software, adaptable hardware, and customized solutions that cater to diverse learning styles.

What Is Assistive Technology and Why It Matters

Assistive technology refers to any tool, device, software, or equipment that helps individuals with disabilities perform functions that might otherwise be difficult or impossible. In an educational context, this technology helps students overcome barriers related to reading, writing, communication, mobility, and organization.

The significance of assistive technology lies not only in its practical benefits but also in how it empowers students. By providing alternative ways to engage with learning materials, these technologies boost confidence, encourage participation, and promote academic success. They also support the principles of Universal Design for Learning (UDL), which aim to make education accessible to all learners.

Common Types of Assistive Technology for Students with Disabilities

There is a vast array of assistive technologies designed to address different disabilities and learning challenges. Let's explore some of the most common types and how they benefit students in various ways.

1. Communication Aids

For students with speech or language impairments, communication aids are invaluable. These devices and applications help users express themselves more effectively.

- **Augmentative and Alternative Communication (AAC) Devices**: These include speech-generating devices (SGDs) that produce spoken words through a touchscreen or keyboard input. They empower non-verbal students or those with limited speech abilities to participate in conversations and classroom discussions.
- **Communication Apps**: There are numerous apps available for tablets and smartphones that provide symbol-based communication or text-to-speech functions, making communication more accessible and portable.

2. Reading and Writing Support Tools

Students with dyslexia, visual impairments, or fine motor difficulties often benefit from assistive technology that enhances reading and writing.

- **Text-to-Speech Software**: Programs that read digital text aloud help students who struggle with decoding or have visual impairments. This technology also supports auditory learners by providing a multisensory learning experience.
- **Speech-to-Text Software**: Also known as dictation software, this allows students to speak their ideas aloud while the program converts their speech into written text. It's particularly helpful for those with writing disabilities or motor impairments.
- **Electronic Spell Checkers and Grammar Tools**: These tools assist students in editing their work and improving writing skills without feeling overwhelmed.
- **Reading Pens and Scanners**: Portable devices that scan printed text and read it aloud, useful for independent reading.

3. Mobility and Physical Access Devices

For students with physical disabilities, various technologies facilitate movement and interaction with their environment.

- **Wheelchairs and Walkers with Adaptive Features**: Powered wheelchairs with customized controls enable greater independence for students with mobility impairments.
- **Adaptive Keyboards and Mice**: These input devices are designed for students who have difficulty using standard keyboards or mice, featuring larger keys, alternative shapes, or switch controls.
- **Switches and Alternative Input Devices**: Switches can be activated by various body parts and are used to control computers or communication devices, allowing students with limited motor skills to participate in digital learning activities.

4. Visual and Hearing Assistance Technologies

Sensory impairments require specialized tools to make learning materials accessible.

- **Screen Readers**: Software that reads text displayed on a computer screen aloud, helping students with blindness or low vision.
- **Braille Displays and Printers**: Devices that convert text into braille, allowing tactile reading and writing.
- **Hearing Aids and FM Systems**: Amplify sound and reduce background noise for students with hearing loss, improving their ability to follow lectures and engage in discussions.
- **Captioning and Transcription Services**: Real-time captions or transcripts make audio and video content accessible to students with hearing impairments.

5. Organizational and Study Aids

Assistive technology also supports executive functioning skills like organization, time management, and study habits.

- **Digital Planners and Reminder Apps**: Help students keep track of assignments, deadlines, and appointments.
- **Mind Mapping Software**: Assists in organizing thoughts visually, which can be particularly helpful for students with ADHD or learning disabilities.
- **Note-Taking Tools**: Audio recorders or smart pens that capture lectures allow students to revisit material at their own pace.

How to Choose the Right Assistive Technology

Selecting the most appropriate assistive technology depends on a thorough understanding of the student's unique needs, strengths, and learning goals. Collaboration among educators, therapists, parents, and the students themselves is crucial.

A good starting point is conducting an assistive technology assessment, which evaluates the student's abilities and the demands of their educational environment. This process helps identify which tools will provide meaningful support without causing frustration or dependence.

Trial periods and ongoing training are also important. Even the best devices need time to integrate smoothly into daily routines, and students benefit when they receive guidance on effective use. Schools that offer professional development for teachers on assistive technology ensure that these tools are maximized to support learning outcomes.

The Future of Assistive Technology in Education

The field of assistive technology is rapidly advancing, driven by innovations in artificial intelligence, machine learning, and mobile computing. Emerging tools like eye-tracking devices, advanced speech recognition, and customizable learning platforms promise to make education even more inclusive.

Wearable technologies and virtual reality are beginning to offer immersive learning experiences tailored to individual challenges. As technology becomes more affordable and accessible, the potential to transform educational opportunities for students with disabilities grows exponentially.

Ultimately, the goal remains to empower every learner to reach their fullest potential. When thoughtfully integrated, types of assistive technology for students with disabilities open doors to knowledge, creativity, and connection that might otherwise remain closed.

Frequently Asked Questions

What is assistive technology for students with disabilities?

Assistive technology refers to devices, software, or equipment that help students with disabilities perform functions that might otherwise be difficult or impossible, enhancing their learning and participation.

What are some common types of assistive technology used by students with visual impairments?

Common assistive technologies for students with visual impairments include screen readers, braille displays, magnification software, and audio books.

How does speech-to-text technology assist students with learning disabilities?

Speech-to-text technology converts spoken words into written text, helping students with learning disabilities who struggle with writing or typing to complete assignments and communicate more effectively.

What assistive technology tools support students with hearing impairments?

Students with hearing impairments benefit from tools such as hearing aids, FM systems, captioning services, and visual alert systems that enhance auditory input and communication.

Can assistive technology help students with physical disabilities in the classroom?

Yes, assistive technology like adaptive keyboards, eye-tracking devices, and specialized mice enable students with physical disabilities to interact with computers and participate in classroom activities.

What role do communication devices play for students with speech impairments?

Communication devices, such as speech-generating devices and communication apps, help students with speech impairments express themselves and engage in social and academic interactions.

Are there assistive technologies specifically designed for students with cognitive disabilities?

Yes, assistive technologies for cognitive disabilities include organizational apps, memory aids, text-to-speech software, and simplified user interfaces that support learning and task management.

How does braille technology enhance learning for students who are blind?

Braille technology, including braille keyboards and refreshable braille displays, allows students who are blind to read and write digital text, facilitating access to educational materials.

What is the importance of customizable assistive technology for students with disabilities?

Customizable assistive technology ensures that tools are tailored to the unique needs and preferences of each student, maximizing their effectiveness and supporting individualized learning.

How can educators integrate assistive technology into their teaching for students with disabilities?

Educators can integrate assistive technology by assessing student needs, providing training on devices, incorporating technology into lesson plans, and collaborating with specialists to ensure proper use and support.

Additional Resources

Types of Assistive Technology for Students with Disabilities: An In-Depth Review

Types of assistive technology for students with disabilities represent a critical component in modern education, enabling learners with diverse needs to access, participate in, and benefit from educational opportunities. As educational environments become increasingly inclusive, understanding the range of assistive technologies available is essential for educators, parents, and policymakers committed to fostering equitable learning experiences.

The field of assistive technology (AT) encompasses a broad spectrum of devices, software, and tools designed to support students with physical, sensory, cognitive, or learning disabilities. These technologies can range from low-tech solutions such as pencil grips and graphic organizers to high-tech tools like speech recognition software and adapted communication devices. The effectiveness of any assistive technology depends heavily on its alignment with the individual student's specific challenges and learning objectives.

Exploring the Landscape of Assistive Technology

Assistive technology is not a monolith; it includes various categories tailored to address different disability types and learning barriers. These technologies enable students to overcome obstacles related to mobility, communication, sensory processing, and cognitive function. The integration of assistive tools into classrooms has been shown to improve academic outcomes and foster greater independence among students with disabilities.

The Individuals with Disabilities Education Act (IDEA) mandates that schools provide appropriate accommodations, including assistive technology, to support the educational progress of students with disabilities. This legal framework underscores the importance of customized AT interventions and highlights the evolving nature of assistive solutions as technology advances.

Types of Assistive Technology for Physical Disabilities

Physical disabilities can affect a student's ability to write, move, or manipulate objects, and assistive technology in this category often focuses on mobility aids and adaptive devices.

- **Adaptive Keyboards and Mice:** These devices cater to students with limited fine motor skills, offering alternative layouts, larger keys, or joystick controls to facilitate computer access.
- **Wheelchairs and Mobility Scooters:** While primarily mobility aids, powered wheelchairs with integrated controls can help students navigate school environments independently.
- **Switch Access Devices:** For students with severe physical impairments, switch systems allow interaction with computers or communication devices through simple on/off switches operated by any part of the body.
- **Writing Aids:** Pencil grips, slant boards, and ergonomic pens assist students in handwriting tasks by improving grip and posture.

These tools are designed to promote autonomy and minimize physical barriers to learning. However, some high-tech options can be costly, and schools may face budget constraints

in providing widespread access.

Technology for Students with Visual Impairments

Visual impairments present unique challenges, especially in accessing printed materials and visual information. Assistive technology tailored for this group focuses on enhancing or substituting visual input.

- **Screen Readers:** Software such as JAWS or NVDA converts on-screen text into synthesized speech, enabling students to navigate digital content audibly.
- **Braille Displays and Notetakers:** Refreshable braille devices translate text into braille characters, allowing tactile reading and writing for blind students.
- **Magnification Software:** Programs that enlarge text and images on screens assist students with low vision in accessing visual content.
- **Optical Character Recognition (OCR):** OCR technology converts printed text into digital formats that can be read aloud or displayed in accessible formats.

While these technologies significantly enhance access, they often require specialized training for effective use. Additionally, the integration of braille technology remains essential despite the rise of audio-based tools to support literacy development.

Assistive Tools for Hearing Impairments

Students with hearing loss benefit from assistive technologies that facilitate auditory information reception and communication.

- **Hearing Aids and Cochlear Implants:** These devices amplify sound or directly stimulate auditory nerves to improve hearing.
- **FM Systems:** Frequency modulation systems transmit a teacher's voice directly to a student's hearing device, reducing background noise interference.
- **Captioning and Transcription Services:** Real-time captioning supports comprehension of spoken content during lectures or videos.
- **Visual Alert Systems:** Devices that convert auditory signals (e.g., alarms, doorbells) into visual cues help students respond appropriately.

The effectiveness of these technologies often depends on environmental factors and the

severity of hearing loss. Combining multiple assistive tools can create more comprehensive support systems.

Cognitive and Learning Disability Assistive Technologies

Students with cognitive or learning disabilities, such as dyslexia, ADHD, or executive functioning challenges, benefit from assistive technologies that enhance organization, comprehension, and communication.

- **Text-to-Speech (TTS) Software:** TTS programs read digital text aloud, aiding students with reading difficulties or attention issues.
- **Speech-to-Text (STT) Tools:** These convert spoken words into written text, helping students who struggle with writing or typing.
- **Graphic Organizers and Mind Mapping Software:** Visual tools assist in structuring ideas, improving planning and comprehension.
- **Time Management Apps:** Applications that provide reminders, timers, and scheduling support help students with attention deficits stay organized.

While these technologies can enhance learning efficiency, their success relies on appropriate selection and consistent use, often requiring training and ongoing support from educators and specialists.

Comparative Insights and Implementation Challenges

The variety of assistive technology options highlights the necessity for individualized assessments to identify the most effective tools for each student. Factors influencing technology choice include the nature and severity of the disability, the educational context, user preferences, and available resources.

Cost considerations and training requirements can pose significant barriers to widespread adoption. Additionally, the rapid evolution of technology demands continuous professional development for educators and support staff to effectively integrate assistive tools into daily learning activities.

Research indicates that when assistive technology is properly matched to a student's needs and supported by tailored instruction, it can lead to measurable improvements in academic performance, engagement, and self-confidence. Conversely, inappropriate or poorly implemented technology may hinder progress and cause frustration.

Future Trends in Assistive Technology for Education

Emerging technologies such as artificial intelligence (AI), augmented reality (AR), and machine learning are beginning to influence the development of assistive tools. AI-powered applications can adapt to individual learning patterns, providing personalized support that evolves with the student's progress.

Wearable devices and sensor-based technologies offer promising avenues for real-time assistance and monitoring. Meanwhile, advances in natural language processing enhance communication tools for students with speech impairments.

These innovations suggest a future where assistive technology becomes more intuitive, affordable, and seamlessly integrated into educational ecosystems. However, ethical considerations, data privacy, and equitable access will remain key concerns as technology continues to transform special education.

The ongoing commitment to exploring and implementing diverse types of assistive technology for students with disabilities reflects a broader societal goal of inclusion and accessibility. By embracing a comprehensive array of tools—from simple adaptations to sophisticated digital platforms—educators can better meet the varied needs of learners and help unlock their full potential.

Types Of Assistive Technology For Students With Disabilities

types of assistive technology for students with disabilities: *Technology for Students with Disabilities* National School Boards Association, 1997 This guide presents strategies for applying technology to help students who have cognitive and physical disabilities, and shows how technology is useful not only in presenting curriculum and assessing students, but also in the administration and organization of special education programs. Case studies and descriptions of state-of-the-art applications illustrate how technology can help students with disabilities master complex materials and basic skills and how technology can support educators in assessing and evaluating students' progress. Chapter 1 describes the most common challenges associated with educating children with disabilities and discusses research-validated approaches in assistive instruction and assessment technologies. Chapter 2 demystifies the process of determining what technology will best meet student needs and discusses the cost effective acquisition of those technologies. Chapter 3 delineates strategies necessary to ensure that technology investments produce continuous learning improvements, including the establishment of a technology team and devising a long-range technology plan. Chapter 4 provides assistance in finding the help needed to make technology pay off. It includes an extensive resource list that provides contact information and describes national, state, and local organizations, information centers, clearinghouses, and research group that provide services, information, and demonstrations of technology. An appendix includes relevant federal documents on assistive technology. (CR)

types of assistive technology for students with disabilities: Technology-Supported Interventions for Students With Special Needs in the 21st Century Liu, Xiongyi, Wachira, Patrick, 2022-03-18 Groundbreaking innovations have paved the way for new assistive approaches to support students with special needs. New technological innovations such as smart mobile devices and apps, wearable devices, web-based monitoring and support systems, artificial intelligence, and more are

changing the way in which care and support can be given to students with special needs. These technologies range from encouraging self-care and independent living to supporting the completion of academic work, accommodating cognitive disabilities, or even supporting communication and socialization. The applications of assistive technologies are widespread and diverse in the ways in which the technology itself can be utilized and the people it can support. The increasing developments in technology are bringing in a new way of interventions for all types of students with diverse special needs in the modern educational atmosphere. Technology-Supported Interventions for Students With Special Needs in the 21st Century covers effective assistive modern technologies for overcoming specific challenges encountered by students with special needs for promoting their learning and development, educational attainment, social engagement, self-sufficiency, and quality of life. This book presents an overview of contemporary assistive tools and approaches integrated with digital technologies for students with special needs; shares findings of cutting-edge research on using digital technologies; provides evidence-based digital technology-facilitated tools and strategies for effective diagnosis, treatment, educational intervention, and care of students with special needs; and identifies promising areas and directions for future innovations, applications, and research. It is ideal for classroom teachers, special educators, educational technologists, intervention specialists, medical professionals, caregivers, administrators, policymakers, teacher educators, researchers, academicians, and students interested in the use of assistive technologies for students with special needs in the digital era.

types of assistive technology for students with disabilities: *Special Education in Contemporary Society* Richard M. Gargiulo, 2012 *Special Education in Contemporary Society: An Introduction to Exceptionality* is designed for use by preservice and inservice teachers who will teach students with special needs in the general classroom. The text provides a rare glimpse into the lives of persons with exceptionalities, including their families and teachers. Focusing on human exceptionalities across the life span, the text employs a traditional organization beginning with four foundations chapters that introduce teachers to special education, followed by 10 categorical chapters each on a different disability. Each categorical chapter features sections on transition, cultural diversity, technology, instructional strategies, and family considerations.

types of assistive technology for students with disabilities: **Assistive Technology in the Classroom** Amy G. Dell, Deborah A. Newton, Jerry G. Petroff, 2011-11-21 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. A current look at the most effective uses of assistive technology for students with disabilities that emphasizes the link between technology and learning. This updated text focuses on the use of assistive technology to increase the independence and participation of students with disabilities in schools by providing them with access to the curriculum. With an emphasis on both the relationship between assistive technology and learning and on how assistive technology can be integrated into the curriculum, this text assesses the school-related tasks that students with special needs must perform in order to be successful. Additionally, this text provides descriptions of technology-based solutions, presenting these obstacles in clear, engaging prose. Instead of approaching this topic through disability categories, this book recognizes that each child is unique and that there are multiple factors to examine before choosing technology tools for each student. Throughout the book, assistive technology tools are not discussed in isolation — the context for technology use is always the classroom, the teaching-learning process, and its impact on students with disabilities.

types of assistive technology for students with disabilities: *Special Education Design and Development Tools for School Rehabilitation Professionals* Singh, Ajay, Viner, Mark, Yeh, Chia Jung, 2019-12-13 Educators who work with students with disabilities have the unique challenge of providing comprehensive and quality educational experiences for students who have a wide range of abilities and levels of focus. Pedagogies and educational strategies can be applied across a student population, though they tend to have varied success. Developing adaptive teaching methods that provide quality experiences for students with varied disabilities are necessary to promote success

for as many of these students as possible. Special Education Design and Development Tools for School Rehabilitation Professionals is a comprehensive research publication that examines special education practices and provides in-depth evaluations of pedagogical practices for improved educational experiences for students with disabilities. Highlighting a range of topics such as bilingual education, psychometrics, and physical education, this book is ideal for special education teachers, instructors, rehabilitation professionals, academicians, school administrators, instructional designers, curriculum developers, principals, educational software developers, researchers, and students.

types of assistive technology for students with disabilities: Resources in Education , 2001

types of assistive technology for students with disabilities: Assistive Technology for Children and Youth with Disabilities Mary Ann Marchel, Denise M. Clark, 2013 Note: This is the loose-leaf version of Assistive Technology for Children and Youth with Disabilities and does not include access to the Pearson eText. To order the Pearson eText packaged with the loose-leaf version, use ISBN 0133399907. Encompassing home, school and community environments, Assistive Technology for Children and Youth with Disabilities highlights the vast amount of supports available for children with disabilities from birth to age 21. An informative resource, the text details not only what types of assistive technology exist, but also how to select technology to meet specific students needs and match specific environmental circumstances. Chapters address the broad range of technologies now available, including supports for mobility, positioning, access, academic areas, behavior problems, recreation, and transitioning. Case examples, vignettes and activities provide practical, real-life examples that show how to use assistive technology to improve the independence and participation of students with special needs.

types of assistive technology for students with disabilities: Instructional Strategies for Students With Mild, Moderate, and Severe Intellectual Disability Richard M. Gargiulo, Emily C. Bouck, SAGE Publications, Inc., 2017-01-20 Instructional Strategies for Students with Mild, Moderate, and Severe Intellectual Disability supports teacher educators who are preparing pre-service or in-service teachers to instruct students with intellectual disability from preschool through transition. As a solid, research based methods textbook, it focuses on providing strategies and approaches for how to teach across the spectrum of intellectual abilities and shows how teaching these students involves attention to evidence-based practice. The book presents academic, functional, and behavioral instructional strategies for all these populations.

types of assistive technology for students with disabilities: Student-teachers' ideas for research in ELT Dr. Ive Emaliana, Ika Puspitasari, M.Pd, Dimas Rizki Mulia, S.Pd, 2022-12-12 The goal of this edited book is to share the research ideas of English language Education students in relation to ELT themes, theories, methods, and contexts. This book is a collection of nineteen selected student papers that went through several peer editings, lecturer consultations, and an online undergraduate conference. Each paper has been well prepared by the author, as they checked for less possibility of double publication; thus, the responsibility for the papers' originality is solely held by each author.

types of assistive technology for students with disabilities: *Disability in Higher Education* Nancy J. Evans, Ellen M. Broido, Kirsten R. Brown, Autumn K. Wilke, 2017-03-06 Create campuses inclusive and supportive of disabled students, staff, and faculty Disability in Higher Education: A Social Justice Approach examines how disability is conceptualized in higher education and ways in which students, faculty, and staff with disabilities are viewed and served on college campuses. Drawing on multiple theoretical frameworks, research, and experience creating inclusive campuses, this text offers a new framework for understanding disability using a social justice lens. Many institutions focus solely on legal access and accommodation, enabling a system of exclusion and oppression. However, using principles of universal design, social justice, and other inclusive practices, campus environments can be transformed into more inclusive and equitable settings for all constituents. The authors consider the experiences of students, faculty, and staff with disabilities

and offer strategies for addressing ableism within a variety of settings, including classrooms, residence halls, admissions and orientation, student organizations, career development, and counseling. They also expand traditional student affairs understandings of disability issues by including chapters on technology, law, theory, and disability services. Using social justice principles, the discussion spans the entire college experience of individuals with disabilities, and avoids any single-issue focus such as physical accessibility or classroom accommodations. The book will help readers: Consider issues in addition to access and accommodation Use principles of universal design to benefit students and employees in academic, cocurricular, and employment settings Understand how disability interacts with multiple aspects of identity and experience. Despite their best intentions, college personnel frequently approach disability from the singular perspective of access to the exclusion of other important issues. This book provides strategies for addressing ableism in the assumptions, policies and practices, organizational structures, attitudes, and physical structures of higher education.

types of assistive technology for students with disabilities: Special Education for All Teachers Ron Colarusso, Colleen M. O'Rourke, 2003-08

types of assistive technology for students with disabilities: **Emerging Trends in Digital Era Through Educational Technology** Dr. Manichander T.,

types of assistive technology for students with disabilities: **Leveraging Technology to Improve School Safety and Student Wellbeing** Huffman, Stephanie P., Loyless, Stacey, Albritton, Shelly, Green, Charlotte, 2019-10-25 From implementation in the classroom to building security, technology has permeated all aspects of education throughout the United States. Though hardware has been developed to identify and prevent weaponry from entering a school, including video cameras, entry control devices, and weapon detectors, school safety remains a fundamental concern with the recent increase of school violence and emergence of cyberbullying. Professionals need answers on how to use this technology to protect the physical, emotional, and social wellbeing of all children. *Leveraging Technology to Improve School Safety and Student Wellbeing* is a pivotal reference source that provides vital research on the application of technology in P-12 school safety and its use to foster an environment where students can feel safe and be academically successful. The book will comprise empirical, conceptual, and practical applications that craft an overall understanding of the issues in creating a "safe" learning environment and the role technology can and should play; where a student's wellbeing is valued and protected from external and internal entities, equitable access is treasured as a means for facilitating the growth of the whole student, and policy, practices, and procedures are implemented to build a foundation to transform the culture and climate of the school into an inclusive nurturing environment. While highlighting topics such as professional development, digital citizenship, and community infrastructure, this publication is ideally designed for educators, scholars, leadership practitioners, coordinators, policymakers, government officials, law enforcement, security professionals, IT consultants, parents, academicians, researchers, and students.

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education. Covering topics such as accessibility, educational models, teacher training, and assistive technologies, it is ideal for special education teachers, academicians, in-service teachers, pre-service teachers, professors, students, researchers, professionals, administrators, curriculum developers, instructional designers, and policymakers.

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types of assistive technology for students with disabilities: Assistive Technology in the Classroom Amy G. Dell, Deborah A. Newton, Jerry G. Petroff, 2016-01-13 Gives readers an up-to-date look at how assistive technology can be used in all kinds of classrooms, at all grade levels, to enhance the teaching and learning of students with a wide range of disabilities. KEY TOPICS: Assistive technology, computer technology, instructional technology, integrating technology into augmentative communication, access to computers and mobile devices, children with disabilities, students with disabilities, special education, teacher education, technology training, professional development-technology MARKET The focus of this book is on assistive technology in the classroom and the curriculum-its use in the teaching and learning process, not on tech tools in other disciplines such as adapted sports, transportation, or powered mobility. As such, the in-service market is classroom teachers and special education teachers and administrators.

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types of assistive technology for students with disabilities: A Literature Review Susan Sze, 2004 This paper presents an analytical framework for selecting and matching assistive technology to learners with a disability. The purpose of this paper is to analyze assistive technology literature for students with disabilities. The literature search rendered N=57 literature and n=17

manuscripts were identified in the special education technology field studies. Each source was evaluated according to the following criteria: types of disability, learning objectives and tasks, types of assistive devices available, application, and competency in matching the assistive technology with a specific disability. Results show (1) research in this field tends to be limited to faculty development and need assessment focus, (2) technological interventions appeared scattered, vague, incomprehensive and non-specific, and (3) pre-service teachers' comfort level of assistive technology in an inclusive classroom remain low. An updated list of various type of AT suggesting teachers to match each technological tool to a specific disability is summarized in Table 1 and it is also included in this study. [Support for this paper was provided by a grant from Niagara University College of Education.].

types of assistive technology for students with disabilities: *Emerging Technologies to Enhance Learning among Slow Learners* Dr. R. Gnanadevan and Dr. R. Babu, 2019-04-08 Information technology (IT) has become a vital and integral part of every business plan. Technology has the ability to enhance relationships between teachers and students. When teachers effectively integrate technology into subject areas, teachers grow into roles of adviser, content expert, and coach. Technology helps make teaching and learning more meaningful and fun. From multi-national corporations who maintain mainframe systems and databases to small businesses that own a single computer, IT plays a role. The reasons for the omnipresent use of computer technology in business can best be determined by looking at how it is being used across the business world.

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