



Using Computer-Assisted Instruction to Teach Student Participation in the IEP Process

What is the evidence base?

- This is a promising practice for **students with disabilities** based on one methodologically sound group study and one single subject study across 25 participants with disabilities.

Where is the best place to find out how to do this practice?

The best place to find out how to implement computer-assisted instruction (CAI) to teach student participation in the IEP process is through the following research to practice lesson plan starters:

- [Computer Assisted Instruction – Student Focused Planning - Lesson \(Lancaster, Schumaker, & Deshler, 2002\)](#)

With who was it implemented?

- Students with
 - High incidence disabilities (1 study, n=22)
 - Learning disabilities (1 study, n=3)
- Ages ranged from 12-18
- Males (n=18), females (n=4), not specified (n=3)
- Ethnicity
 - African American (n=3)
 - American Indian (n=0)
 - Asian/Pacific Islander (n=1)
 - White (n=20)
 - None reported (n=1)

What is the practice?

Computer-assisted instruction (CAI) is defined as “the use of a computer and other associated technology with the intention of improving students’ skills, knowledge, or academic performance” (Okolo, Bahr, & Rieth, 1993, p. 1) and is synonymous with terms such as computer-based instruction, computer-mediated instruction, interactive hyper- media instruction, and multimedia instruction.

CAI offers an interactive format that can provide examples and feedback to students, while including multiple components, such as graphics, photographs, audio, text, and video (Hutcherson, Langone, Ayres, & Clees, 2004).

- Computer Assisted Instruction - Lesson - SAS :
http://transitionta.org/sites/default/files/LP_CAI_IEP1.pdf

In the studies used to establish the evidence base for using CAI to promote student participation in the IEP, CAI included using a:

- CD-ROM (Hammer, 2004; Lancaster, Schumaker, & Deshler, 2002)

Where has it been implemented?

- Self-contained classroom (1 study)
- School library (a study)

How does this practice relate to Common Core Standards?

- Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally (Comprehension and Collaboration, Grade 8)
- Use knowledge of language and its conventions when writing, speaking, reading, or listening (Knowledge of Language, Grade 8)

How does this practice relate to the Common Career Technical Core?

- Operate presentation applications to prepare presentations (Information Technology Applications)
- Develop and deliver formal and informal presentations using appropriate media to engage and inform audiences (Communications)

References used to establish this evidence base:

Hammer, M. R. (2004). Using the self-advocacy strategy to increase student participation in the IEP conference. *Intervention in School and Clinic, 39*, 295- 300.

Lancaster, P. E., Schumaker, J. B., & Deshler, D. D. (2002). The development and validation of an interactive hypermedia program for teaching a self-advocacy strategy to students with disabilities. *Learning Disabilities Quarterly, 25*, 277-302.

This Practice Description was developed by The National Technical Assistance Center on Transition (NTACT), Charlotte, NC, funded by Cooperative Agreement Number H326E140004 with the U.S. Department of Education, Office of Special Education and Rehabilitative Services (OSERS). This document has been reviewed and approved by the OSERS. Opinions expressed herein do not necessarily reflect the position or policy of the U.S. Department of Education nor does mention of trade names, commercial products, or organizations imply endorsement by the U.S. Department of Education. OSEP Project Officer: Dr. Selete Avoke. RSA Project Officer: Kristen Rhinehart-Fernandez. This product is public domain. Authorization to reproduce it in whole or in part is granted. While permission to reprint this publication is not necessary, the citation should be: National Technical Assistance Center on Transition (2018). *Using Computer-Assisted Instruction to Teach Student Participation in the IEP Process.*

