



Using Web-Based 2.0 Tools in your Math Classroom

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Objectives

- Discuss challenges faced by SED elementary teachers in math classes
- Explore Web 2.0 technologies and how they can be used to to teach math
 - ToonDoo
 - Brain Shark
 - Animoto
 - Voki
- Practice using 1 technology discussed



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Burns, M. (1998). Math: Facing an American phobia. New York, Math Solutions Publications.

Curriculum Issues

- Spiraling curriculum
- Too rapid introduction of new concepts
- Insufficiently supported explanations and activities
- Insufficient practice (Carnine, Jones, & Dixon, 1994).

Interventions Found Effective for Students with Disabilities

- Reinforcement and corrective feedback for fluency
- Concrete-Representational-Abstract Instruction
- Direct/Explicit Instruction
- Verbalization while problem solving (think aloud)
- Big Ideas
- Metacognitive strategies: Self-monitoring, Self-Instruction
- Computer-Assisted Instruction
- Monitoring student progress
- Teaching skills to mastery

Research

- Computer-assisted instruction (CAI) has been 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)
- 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 provides examples and feedback to students, while including multiple components, such as graphics, photographs, audio, text, and video (Hutcherson, Langone, Ayres, & Clees, 2004).

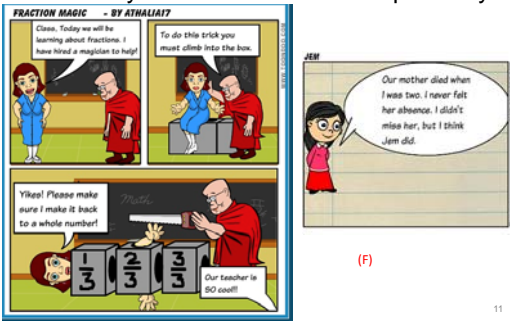
VOKI



- Enables you to create an avatar in your own voice or using text-to-speech using a talking character.
- You can customize your Voki to look like you or take on the identity of different characters such as animals or cartoons.

TOONDOO

- Enables you to make cartoon strips easily



JING

- Free Download
- Captures screen recordings with audio
- Take a picture or make a short video of anything you see on your screen/monitor

Let's look at this business ad and see how it can relate to your class:

- Others:
 - Brain Shark (F) <https://www.brainshark.com/brainsharkinc/vu?pi=CCzNNkLAz0z0>
 - Smart Notebook (90-Day) Smartboard Software
 - Wo-Book (5-F)



GOANIMATE

- Web-based cartoon strips with talking characters, props, backgrounds

https://goanimate4schools.com/public_index



WORDLE

- Generates “word clouds” from text
- The clouds give greater prominence to words that appear more frequently in the



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GLOGSTER

- Enables you to make an interactive poster easily
- Mix Images, Text, Music, and Video

<http://www.schooltube.com/video/4371a4c846be574a560a/Mrs-Johnson-Glogster-Tutoria>

1/30--\$39 use SchoolTube to post videos



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Let's practice

- www.voki.com Email Me ☺
- www.toondoo.com
- www.goanimate.com
- www.wordle.net/create
- www.glogster.com

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References

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- www.wordle.com
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- www.goanimate.com
- www.glogster.com
- <http://www.techsmith.com/jing/>

Individuals with Disabilities Education Improvement Act of 2004, 20 U.S.C. § 1400 *et seq.* (2004)(reauthorization of the Individuals with Disabilities Education Act of 1990).

Marin, J., Van Dyke, J., Christensen, W.R., Greene, B., Gardner, J.E., & Lovett, D. (2006). Increasing student participation in IEP meetings: establishing the self-directed IEP as an evidenced-based practice. *Exceptional Children*, 72, 29-316.

Van Reusen, A.K., Deshler, D.D., & Schumaker, J.B. (1989). Effects of a student participation strategy in facilitating the involvement of adolescents with learning disabilities in individualized education program planning process. *Learning Disabilities*, 1, 23-34.

Wehmeyer, M., & Schwartz, M. (1997). Self-determination and positive adult outcomes: a follow-up study of youth with mental retardation or learning disabilities. *Exceptional Children*, 63, 245-255.

Questions/Comments
