To Wiki or Not to Wiki

Marcie Desrochers, Ph.D., BCBA-D
Associate Professor, Psychology
The College at Brockport – SUNY

Blend Until Smooth:
Recipes for Hybrid Teaching & Learning
April 14, 2017
The College at Brockport—SUNY
Objectives

You will learn:

(1) definition of wiki

(2) background research

(3) Wikispaces tour & example

(4) best practices

(5) how-to
What is a wiki?

Web-based, asynchronous communication and group collaboration for writing, editing, and sharing material.
Why use a wiki as an educational tool?

• Learners working together toward a goal
• Group/team, learning/student-centered learning
• Synchronous/asynchronous distant communication
• Active participation
• Social interaction
• Control
Should You Consider Using Wikis? Research Evidence on Effectiveness

• Peer vs. self assessment (Hajerrouit, 2013)

• Significant pre/post test learning score (Altanopoulou et al., 2015)

• Threaded discussion vs. wiki (Ioannou, Brown, & Artino, 2015)

• F-2-F vs. wiki (Heidrich et al., 2015)
Single Factor, Multiple Group Experimental Research Design

74 S’s Randomly Assigned

Wiki/Audio Group

Wiki Group

F-2-F Group

Alone

Collaboration

Collaboration

Collaboration

Collaboration

Desrochers, Canale, & Marvin, 2017
The wiki was helpful in assisting our group to complete the writing assignment.

Use of a wiki enhanced my interest in this assignment.

I learned more material from this assignment because of the use of the wiki.

I participated in the assignment more because of using the wiki.

Use of the wiki for the assignment helped me to interact more with the other group members.
Welcome to Our Class Wiki!

There are many developmental disabilities. To learn about some of these conditions and to hone your research and communication skills I am asking you to describe the characteristics, etiology, prognosis, and type(s) of intervention or programming needed for the developmental disability that you signed up to review. Complete the cells for your chosen developmental disorder in the wiki. Be sure to cite your sources. Post a reaction to another student's wiki.

Due:
10 points
Graded in terms of accuracy (3), completeness (2), grammar/spelling (1), use of APA format with referenced resources (1) thoughtful discussion question or synthesis of content posted regarding classmate's wiki (2)

Here's an interesting news resource to explore:
Developmental Disabilities News
Adenosine deaminase (ADA) deficiency

Graded in terms of accuracy (3), completeness (3), grammar/spelling (2), use of APA format with referencing resources (2)

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Etiology</th>
<th>Prognosis?</th>
<th>Type of intervention or support required?</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adenosine deaminase deficiency is characterized by a lack of virtually all immune protection and causes severe combined immunodeficiency (SCID) (National Library of Medicine, 2013). It is a genetic mutation in a gene on chromosome 20 which codes for the enzyme adenosine deaminase (ADA). (n.d.)</td>
<td>ADA deficiency is inherited in an autosomal recessive pattern; this means both parents each carry one recessive copy of the mutated gene, but do not typically show signs or symptoms of the condition. (National Library of Medicine, 2013). Doctors can identify ADA deficiency during the mother's pregnancy by taking a tissue sample from the placenta.</td>
<td>There are no current absolute cures for ADA deficiency, but doctors have tried to restore ADA levels and improve immune system function with a variety of treatments such as bone marrow transplantation from a biological match to provide healthy immune cells; transfusions of red blood cells containing high levels</td>
<td>Adenosine Deaminase deficiency (2013). Retrieved March 5, 2016, from <a href="https://ghr.nlm.nih.gov/condition/adenosine-deaminase-deficiency">https://ghr.nlm.nih.gov/condition/adenosine-deaminase-deficiency</a>. Adenosine Deaminase deficiency (n.d.). Retrieved March 5, 2016, from <a href="http://www.amgen.com/genes/disorders/inglegene.html#adaml">http://www.amgen.com/genes/disorders/inglegene.html#adaml</a></td>
<td></td>
</tr>
</tbody>
</table>
Recent Changes

- **Pages**
- **Messages**
- **Comments**
- **Files**
- **Tags**
- **Members**

**Username**

**Date**

**Filter**

**Today**

- **Smith-Magenis Syndrome** edited
  Graded in terms of accuracy (3), completeness (3), grammar/spelling (2), use of APA format with ref...

- **Tourette Syndrome** edited
  Characteristics? This is described as a problem with the nervous system that causes sudden mo...

**Wednesday, March 30**

- ** mdesroch**
  8:52 pm

- **12:18 pm**
Type of Wiki-based Learning Activities

- Knowledge construction
- Critical thinking
- Contextual application
Type of Collaboration

Best Implementation Practices

• Introduce the wiki/blog with learning objectives, goals, deadlines
• Prepare students for the work environment
• Discuss rules and roles
• Assessment procedure and assignment requirements
• Models and examples
• Motivation
• Review the tool
• Evaluate/assess effectiveness
<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Posts demonstrate careful reading of &amp; critical reflection on reading assignments and course info. Statements supported by citing references. Comments on other posts and responds appropriately to comments on own posts as applicable. Ideas expressed clearly &amp; concisely. Uses appropriate terminology &amp; vocabulary. Correct spelling and grammar.</td>
</tr>
<tr>
<td>4</td>
<td>Posts indicate reading &amp; basic understanding of reading assignments. Supports some opinions with evidence from reading. Occasionally comments on others’ posts &amp; usually responds to comments on own posts as applicable. Ideas sometimes unclear due to poor organization or word choice. Posts may be late. May have occasional spelling &amp; grammatical errors.</td>
</tr>
<tr>
<td>3</td>
<td>Posts suggest incomplete reading or poor understanding of the material. Does not always support an opinion with evidence from the reading. Rarely comments on other posts &amp; infrequently responds to comments on own work as applicable. Posts may be late. May have frequent spelling &amp; grammatical errors.</td>
</tr>
<tr>
<td>2</td>
<td>May only comment on other posts or responds to comments on own work as applicable. Does not post original material. May be late. May have frequent spelling &amp; grammatical errors.</td>
</tr>
<tr>
<td>1</td>
<td>Posts are rare or late, or do not indicate reading &amp; comprehension of the reading assignments &amp; course material. May not comment on other posts or fails to respond to comments on own work as applicable. May have frequent spelling &amp; grammatical errors.</td>
</tr>
<tr>
<td>0</td>
<td>Student did not use discussion board nor post any messages.</td>
</tr>
</tbody>
</table>

How to create a wiki in wikispaces?

1. Make an account for educators – www.wikispaces.com
2. Goto Dashboard
3. Select create wiki
4. Create a unique name with no spaces
   E.g., DevelopmentalDisabilities
5. Create the environment e.g., welcome, RSS feed, instructions, pages, example
6. Invite others: Email Invitation or Join Code (available for 1 week)


Think, Pair, Share

“Technology is just a tool. In terms of getting the kids working together and motivating them, the teacher is the most important.”

~ Bill Gates