**What is Web 2.0?**

New online tools allow users to find and interact with peers that share similar interests, and entire learning communities have been built online. These readings will share the implications these technologies can have for teaching and learning..

**Readings**

[Moving Toward Web 2.0 in K-12 Education](http://www.stevehargadon.com/2008/10/moving-toward-web-20-in-k-12-education.html" \t "_blank), Steve Hargadon   
In this blog post, the author shares his definition of Web 2.0 and explains the aspects of Web 2.0 that translate into achieving educational goals.

[Web 2.0 Tools and K-12 Challenges](http://thejournal.com/Articles/2009/02/18/Web-20-Tools-and-K12-Challenges.aspx?Page=1" \t "_blank), Ruth Reynard, *THE Journal*   
This article explains how teachers can use Web 2.0 tools to help students develop some of the essential skills they will need to be successful in the 21st century, such as learning how to collaborate, manage content, and maximize authorship.

[Why Schools Should Break the Web 2.0 Barrier](http://www.ciconline.org/c/document_library/get_file?folderId=129&name=THSummer09Web20Barrier.pdf" \t "_blank), Will Richardson, *Threshold*   
In this article, author and educator Will Richardson explores how new paths to learning await schools that embrace the transformative power of technology. This piece originally appeared in the [Summer 2009 issue](http://www.ciconline.org/thresholdsummer09" \t "_blank) of *Threshold Magazine*.



**Activities**

**Watch**

Watch the video [A Brave New World Wide Web](http://blip.tv/file/1262079/" \t "_blank), by David Truss. This video explores the impact that Web 2.0 tools can have on learning and teaching. As you watch, think about how this teacher uses technology to facilitate connections with peers outside of his immediate school, and how that could impact the types of instructional ideas that he brings back to his classroom.



**Discussion**

How might integrating Web 2.0 technologies impact the way you teach and the way your students learn in your classroom? Describe some challenges you face when trying to integrate technology and how you have tried to overcome them.



**Wikis and Web-Based Collaboration**

As students have increasingly turned to online resources when doing research, Wikipedia has slowly been replacing physical encyclopedias of old. This trend has sparked a lot of debate (and some concern) among educators. In this session you will learn about wikis, an online space where users can collaborate, share ideas, and resolve common questions of interest. Wikipedia, a big online encyclopedia created and maintained by volunteers, is the most famous example of a wiki, but it is hardly the only one. As you learn more about this tool, you will explore examples of wikis used in education and gather ideas for how you might incorporate wikis into your curriculum.

**Readings**

[The Way of the Wiki: Building Online Creativity and Cooperation](http://www.edutopia.org/whats-next-2008-wiki-technology" \t "_blank), Grace Rubenstein, *Edutopia*   
This article offers an overview of the potential of wiki tools and provides examples of how educators are using them to enhance collaboration.

[Three Challenges to Wiki Use in Instruction](http://campustechnology.com/articles/2009/02/11/3-challenges-to-wiki-use-in-instruction.aspx" \t "_blank), Ruth Reynard, *Campus Technology*   
A successful wiki project must have a clear lesson plan to help students develop content and collaborate both meaningfully and purposefully. This article provides clear strategies for developing wikis successfully in your classroom.

[Using Wikipedia In Your Classroom](http://21cif.com/rkitp/curriculum/v1n5/v1n5_wiki_how-to.html" \t "_blank), 21st Century Information Fluency   
An important part of teaching media literacy is helping students understand how (and when) to use Wikipedia. This article provides information about using Wikipedia in an educational setting and contains a wealth of links to more information about Wikipedia itself.



**Activities**

**Watch**

Watch [Goomoodleikiog](http://www.youtube.com/watch?v=FOKJk-7K9gY" \t "_blank). This video explains how wikis and other Web 2.0 tools can make learning more engaging for students and how they can help teachers become more effective.

Think about how you currently manage collaborative projects with your students and how you might utilize Web 2.0 tools to enhance collaboration, productivity, and feedback. What strategies can you use to tackle issues of technology access--both at school and at home--to help students make the most of these collaborative technologies?

**Explore Wikis from K-12 Classrooms**

Explore the [Wiki in a K-12 classroom](http://wik.ed.uiuc.edu/index.php/Wiki_in_a_K-12_classroom" \t "_blank) wiki for ideas about using wikis to engage students or help them collaborate on group projects. You can also search for wikis on [wiki.com](http://www.wiki.com/" \t "_blank) to find wikis that are relevant to your curriculum. If you find one that pertains to a unit of study that your students are doing, consider having your students contribute to the wiki by sharing what they learn. To get started, explore these examples of how wikis are currently being used for educational purposes.

[Miss. Baker’s Biology Class Wiki](http://missbakersbiologyclasswiki.wikispaces.com/" \t "_blank)

[Flat Classroom Project 2008](http://flatclassroomproject2008.wikispaces.com/" \t "_blank)

[Periodic Table Wiki](http://salksperiodictable.wikispaces.com/Periodic+Table" \t "_blank)

[Kidpedia](http://www.kidpedia.info/" \t "_blank)

**Use a Wiki**

The best way to understand how a wiki can be used as a collaborative tool is to try using one. In preparation for this activity, I have created a wiki; you have been enrolled you as a contributor so that you can add content and edit your peers’ work.

The purpose of this wiki is to share information about online resources that you use (or plan to use, if you have recently found them) in your classroom. While this type of information could be shared over email or in the discussion board, a wiki makes more sense because information from multiple people can be displayed simultaneously and the content can be edited in the future. In this way, a wiki acts as a collaborative, shared document that lives online.

To complete this activity:

* Login to the wiki.
* . Pick at least two educational resources or websites that you would like to share with your colleagues (preferably ones that have not been explored in-depth in this workshop) and add them to the wiki.
* Add your name and a brief annotation, such as the following:  
    
  [http://www.edweek.org/ew/topics/technology/index.html](http://www.edweek.org/ew/topics/technology/index.html" \t "_blank) (Added by Rob)   
  This is EdWeek’s Technology Page. I think it is a good roundup of technology news, but I never have time to visit the site itself—so I am going to start subscribing to it via RSS.

Check the wiki throughout this session to see what resources and websites your colleagues have added. Since wikis are collaborative, anyone who has access to the wiki can edit other contributors’ work; this means that you can add new pages, edit what other people have written, and reorganize content as you feel appropriate.

**Discussion**

Think about the assignments your students currently hand in for you to grade. Choose one of these assignments and share how you might use a wiki for students to submit, review, and discuss content collaboratively. What value, if any, is there in having students collaborate on a wiki as opposed to submitting a project for your review?



**Organizing and Sharing Content with Social Bookmarking**

As you have seen in this workshop, there is a wealth of multimedia content available online. Much of this content can help you address the diverse needs of your students. Finding the time to locate and keep track of all of these resources is the challenge for busy teachers. In this session, you will learn how to find, retrieve, and organize resources more efficiently using social bookmarking tools. You will set up your own social bookmarking account and explore several high quality resources on the Web, bookmarking the ones you find potentially valuable for your classroom.

## Readings

[Seven Things You Should Know About Social Bookmarking](http://www.educause.edu/ir/library/pdf/ELI7001.pdf" \t "_blank), Cyprien Lomas, Educause   
The article defines the concept of social bookmarking and highlights the benefits and drawbacks of using social bookmarking tools in the classroom. Other titles from the “7 Things You Should Know” series are also available on the [Educause Learning Initiative website](http://www.educause.edu/node/645/tid/33438" \t "_blank).

[Web 2.0 Wiki: Social Bookmarks](http://web2tutorial.wikispaces.com/social_bookmarks" \t "_blank)   
This wiki provides an overview of social bookmarking and its usefulness in the classroom. After reading through the information contained on this page, follow some of the links provided under the header “Real-world examples from teachers.”



## Activities

### Watch

Watch the video [Social Networking in Plain English](http://dotsub.com/view/e843f413-96c2-481f-bf1e-bf4548059ff1" \t "_blank). This video highlights the advantages of social bookmarking using the tool Delicious.

### Create a Social Bookmarking Account

With a social bookmarking tool, you can access your bookmarks from any computer with Internet access and easily locate specific resources by searching for the keywords (or tags) that you provided for each resource. You can also group related resources into a list that can easily be shared with others. You are not required to download anything to begin taking advantage of social bookmarking.

Create an account in Delicious, one of the popular social bookmarking websites listed in the table below.

#### Social Bookmarking Tools

|  |  |  |
| --- | --- | --- |
| **Tool** | **Support** | **Description** |
| [Delicious](http://www.delicious.com" \t "_blank) | [Simply Del.icio.us!](http://personal.strath.ac.uk/d.d.muir/Delicious1_2.pdf" \t "_blank) by David Muir  [Help on Delicious](http://delicious.com/help" \t "_blank)  [A Guide to Delicious Social Bookmarking](http://thesocialmediaguide.com.au/2009/06/06/a-guide-to-delicious-social-bookmarking/" \t "_blank) | Delicious was one of the first social bookmarking sites, and remains one of the most popular. Users store bookmarks online, can sign into their account from any computer, and can find sites of interest by examining tags or other users. |
| [Diigo](http://www.diigo.com/" \t "_blank) | [Video: Diigo V3: Highlight & Share the Web! Social Bookmarking 2.0](http://www.youtube.com/watch?v=0RvAkTuL02A" \t "_blank)  [Diigo wiki](https://digitaleducators2.wikispaces.com/Social+Bookmarking+with+Diigo" \t "_blank)  [Diigo User Guide](http://www.diigo.com/help/outline" \t "_blank) | In addition to being a social bookmarking tool, Diigo offers users the ability to “annotate” the Web. This means that Diigo users can post comments—visible only to other Diigo users—directly on websites. |

### Find Web-Based Resources

Review the resources below and locate at least two multimedia resources you might use to enhance your curriculum.

As you find multimedia resources of interest, add the site to your Delicious account and describe the site using tags. Then conduct some of your own research within the Delicious community to find related resources or to connect with other educators.

#### Web-Based Resources

|  |  |  |
| --- | --- | --- |
| **Type** | **Tool** | **Description** |
| Online Curriculum | [Classzone](http://www.classzone.com" \t "_blank) | Online textbook and interactive resources. |
| Online Curriculum | [Curriki](http://www.curriki.org/" \t "_blank) | Free, open-source instructional materials for K-12. |
| Online Curriculum | [OER (Open Educational Resources) Commons](http://www.oercommons.org/" \t "_blank) | Media and lesson plans in all subject areas. |
| Online Curriculum | [MIT OpenCourseWare](http://ocw.mit.edu/OcwWeb/hs/home/home/index.htm" \t "_blank) | Highlights for High School: Advanced Content and Interactives for Science and Math. |
| Interactive Applications | [Explore Learning](http://www.explorelearning.com/" \t "_blank) | 5-minute interactive gizmos for math and science. |
| Interactive Applications | [HippoCampus](http://www.hippocampus.org/" \t "_blank) | Multimedia lessons and course materials in all subject areas. |
| Interactive Applications | [Thinkfinity](http://www.thinkfinity.org/" \t "_blank) | Interactive media and lesson plans in all subject areas. |
| Interactive Applications | [National Library of Virtual Manipulatives](http://nlvm.usu.edu/en/nav/vLibrary.html" \t "_blank) | Interactive math activities by grade level. |
| Multimedia | [Discovery Education Streaming, Discovery Education](http://streaming.discoveryeducation.com/index.cfm" \t "_blank) | Streaming video and classroom resources from Discovery Education. |
| Multimedia | [PBS Teacher Source, PBS](http://www.pbs.org/teachers/" \t "_blank) | Videos, classroom resources, and interactives from PBS Teachers. |
| Multimedia | [Video Gallery, The History Channel](http://www.history.com/video.do?action=home" \t "_blank) | List of videos available from the History Channel. |
| Multimedia | [Image Library, Springfield Township High School Virtual Library](http://www.sdst.org/shs/library/cfimages.html" \t "_blank) | Comprehensive list of copyright friendly images and sounds for use in student multimedia projects. |
| Podcasting | [The Education Podcast Network](http://epnweb.org/" \t "_blank) | Compilation of podcasts from teachers, students, and other educators about a wide range of issues. |
| Podcasting | [LearnOutLoud](http://www.learnoutloud.com/" \t "_blank) | Collection of audio and video resources for classroom use. |

## Discussion

Now that you've explored using a social bookmarking tool to keep track of your resources, how might you use this kind of tool with students?



Workshop Readings and Resources

#### What is Web 2.0?

1. Moving Toward Web 2.0 in K-12 Education   
   [http://www.stevehargadon.com/2008/10/moving-toward-web-20-in-k-12-education.html](http://www.stevehargadon.com/2008/10/moving-toward-web-20-in-k-12-education.html" \t "_blank)
2. Web 2.0 Tools and K-12 Challenges   
   [http://thejournal.com/Articles/2009/02/18/Web-20-Tools-and-K12-Challenges.aspx?Page=1](http://thejournal.com/Articles/2009/02/18/Web-20-Tools-and-K12-Challenges.aspx?Page=1" \t "_blank)
3. Why Schools Should Break the Web 2.0 Barrier   
   [http://www.ciconline.org/c/document\_library/get\_file?folderId=129&name=THSummer09Web20Barrier.pdf](http://www.ciconline.org/c/document_library/get_file?folderId=129&name=THSummer09Web20Barrier.pdf" \t "_blank)
4. A Brave New World Wide Web   
   [http://blip.tv/file/1262079/](http://blip.tv/file/1262079/" \t "_blank)
5. CoolCatTeacher Blog   
   [http://coolcatteacher.blogspot.com/](http://coolcatteacher.blogspot.com/" \t "_blank)
6. The Fischbowl   
   [http://thefischbowl.blogspot.com/](http://thefischbowl.blogspot.com/" \t "_blank)
7. Moving at the Speed of Creativity   
   [http://www.speedofcreativity.org/](http://www.speedofcreativity.org/" \t "_blank)
8. 2 Cents Worth   
   [http://davidwarlick.com/2cents/](http://davidwarlick.com/2cents/" \t "_blank)
9. Teach42.com   
   [http://www.teach42.com/](http://www.teach42.com/" \t "_blank)
10. Weblogg-ed   
    [http://weblogg-ed.com/](http://weblogg-ed.com/" \t "_blank)
11. Ning   
    [http://www.ning.com/](http://www.ning.com/" \t "_blank)
12. Classroom 2.0   
    [http://www.classroom20.com/](http://www.classroom20.com/" \t "_blank)
13. From Web 2.0 to School 2.0   
    [http://www.ciconline.org/c/document\_library/get\_file?folderId=98&name=THSum07Web20toSchool20.pdf](http://www.ciconline.org/c/document_library/get_file?folderId=98&name=THSum07Web20toSchool20.pdf" \t "_blank)
14. Components of an effective Web 2.0 Classroom   
    [http://k12online.wm.edu/Web20classroom.pdf](http://k12online.wm.edu/Web20classroom.pdf" \t "_blank)

#### Wikis and Web-Based Collaboration

1. The Way of the Wiki: Building Online Creativity and Cooperation   
   [http://www.edutopia.org/whats-next-2008-wiki-technology](http://www.edutopia.org/whats-next-2008-wiki-technology" \t "_blank)
2. Three Challenges to Wiki Use in Instruction   
   [http://campustechnology.com/articles/2009/02/11/3-challenges-to-wiki-use-in-instruction.aspx](http://campustechnology.com/articles/2009/02/11/3-challenges-to-wiki-use-in-instruction.aspx" \t "_blank)
3. Using Wikipedia In Your Classroom   
   [http://21cif.com/rkitp/curriculum/v1n5/v1n5\_wiki\_how-to.html](http://21cif.com/rkitp/curriculum/v1n5/v1n5_wiki_how-to.html" \t "_blank)
4. Goomoodleikiog   
   [http://www.youtube.com/watch?v=FOKJk-7K9gY](http://www.youtube.com/watch?v=FOKJk-7K9gY" \t "_blank)
5. Wiki in a K-12 classroom wiki   
   [http://wik.ed.uiuc.edu/index.php/Wiki\_in\_a\_K-12\_classroom](http://wik.ed.uiuc.edu/index.php/Wiki_in_a_K-12_classroom" \t "_blank)
6. Miss. Baker’s Biology Class Wiki   
   [http://missbakersbiologyclasswiki.wikispaces.com/](http://missbakersbiologyclasswiki.wikispaces.com/" \t "_blank)
7. Flat Classroom Project 2008   
   [http://flatclassroomproject2008.wikispaces.com/](http://flatclassroomproject2008.wikispaces.com/" \t "_blank)
8. Periodic Table Wiki   
   [http://salksperiodictable.wikispaces.com/Periodic+Table](http://salksperiodictable.wikispaces.com/Periodic+Table" \t "_blank)
9. Kidpedia   
   [http://www.kidpedia.info/](http://www.kidpedia.info/" \t "_blank)
10. Wiki Policies: WardsWiki   
    [http://c2.com/cgi/wiki?WikiSocialNorms](http://c2.com/cgi/wiki?WikiSocialNorms" \t "_blank)
11. Wiki Policies: Davis Wiki   
    [http://daviswiki.org/Wiki\_Ethics](http://daviswiki.org/Wiki_Ethics" \t "_blank)
12. Google Sites is a Great Wiki and Website Builder   
    [http://www.speedofcreativity.org/2009/01/07/google-sites-is-a-great-wiki-and-website-builder/](http://www.speedofcreativity.org/2009/01/07/google-sites-is-a-great-wiki-and-website-builder/" \t "_blank)
13. Twenty-One Interesting Ways to Use Google in the Classroom   
    [http://docs.google.com/present/view?id=dhn2vcv5\_8323t58h3ft](http://docs.google.com/present/view?id=dhn2vcv5_8323t58h3ft" \t "_blank)
14. Classroom 2.0: Wikis   
    [http://wiki.classroom20.com/Wikis](http://wiki.classroom20.com/Wikis" \t "_blank)

#### Organizing and Sharing Content with Social Bookmarking

1. Seven Things You Should Know About Social Bookmarking   
   [http://www.educause.edu/ir/library/pdf/ELI7001.pdf](http://www.educause.edu/ir/library/pdf/ELI7001.pdf" \t "_blank)
2. Web 2.0 Wiki: Social Bookmarks   
   [http://web2tutorial.wikispaces.com/social\_bookmarks](http://web2tutorial.wikispaces.com/social_bookmarks" \t "_blank)
3. Social Networking in Plain English   
   [http://dotsub.com/view/e843f413-96c2-481f-bf1e-bf4548059ff1](http://dotsub.com/view/e843f413-96c2-481f-bf1e-bf4548059ff1" \t "_blank)
4. Del.icio.us   
   [http://delicious.com/](http://delicious.com/" \t "_blank)
5. Simply Del.icio.us!   
   [http://personal.strath.ac.uk/d.d.muir/Delicious1\_2.pdf](http://personal.strath.ac.uk/d.d.muir/Delicious1_2.pdf" \t "_blank)
6. A Guide to Delicious Social Bookmarking   
   [http://thesocialmediaguide.com.au/2009/06/06/a-guide-to-delicious-social-bookmarking/](http://thesocialmediaguide.com.au/2009/06/06/a-guide-to-delicious-social-bookmarking/" \t "_blank)
7. Diigo   
   [http://www.diigo.com/](http://www.diigo.com/" \t "_blank)
8. Diigo V3: Highlight & Share the Web! Social Bookmarking 2.0   
   [http://www.youtube.com/watch?v=0RvAkTuL02A](http://www.youtube.com/watch?v=0RvAkTuL02A" \t "_blank)
9. Diigo wiki   
   [https://digitaleducators2.wikispaces.com/Social+Bookmarking+with+Diigo](https://digitaleducators2.wikispaces.com/Social+Bookmarking+with+Diigo" \t "_blank)
10. Diigo User Guide   
    [http://www.diigo.com/help/outline](http://www.diigo.com/help/outline" \t "_blank)
11. Classzone   
    [http://www.classzone.com](http://www.classzone.com" \t "_blank)
12. Curriki   
    [http://www.curriki.org/](http://www.curriki.org/" \t "_blank)
13. OER (Open Educational Resources) Commons   
    [http://www.oercommons.org/](http://www.oercommons.org/" \t "_blank)
14. MIT OpenCourseWare   
    [http://ocw.mit.edu/OcwWeb/hs/home/home/index.htm](http://ocw.mit.edu/OcwWeb/hs/home/home/index.htm" \t "_blank)
15. Explore Learning  
    [http://www.explorelearning.com/](http://www.explorelearning.com/" \t "_blank)
16. HippoCampus   
    [http://www.hippocampus.org/](http://www.hippocampus.org/" \t "_blank)
17. Thinkfinity   
    [http://www.thinkfinity.org/](http://www.thinkfinity.org/" \t "_blank)
18. National Library of Virtual Manipulatives   
    [http://nlvm.usu.edu/en/nav/vLibrary.html](http://nlvm.usu.edu/en/nav/vLibrary.html" \t "_blank)
19. Discovery Education Streaming   
    [http://streaming.discoveryeducation.com/index.cfm](http://streaming.discoveryeducation.com/index.cfm" \t "_blank)
20. PBS Teacher Source, PBS   
    [http://www.pbs.org/teachers/](http://www.pbs.org/teachers/" \t "_blank)
21. Video Gallery, The History Channel   
    [http://www.history.com/video.do?action=home](http://www.history.com/video.do?action=home" \t "_blank)
22. Image Library, Springfield Township High School Virtual Library   
    [http://www.sdst.org/shs/library/cfimages.html](http://www.sdst.org/shs/library/cfimages.html" \t "_blank)
23. The Education Podcast Network   
    [http://epnweb.org/ 24. LearnOutLoud www.learnoutloud.com/](http://epnweb.org/%2024.LearnOutLoud%20www.learnoutloud.com/" \t "_blank)