



Midwest AAHPERD Health Council Workshop

Get Connected: Technology Trends

Thoughts of a Digital Immigrant...

Hope my accent isn't too thick 😊.

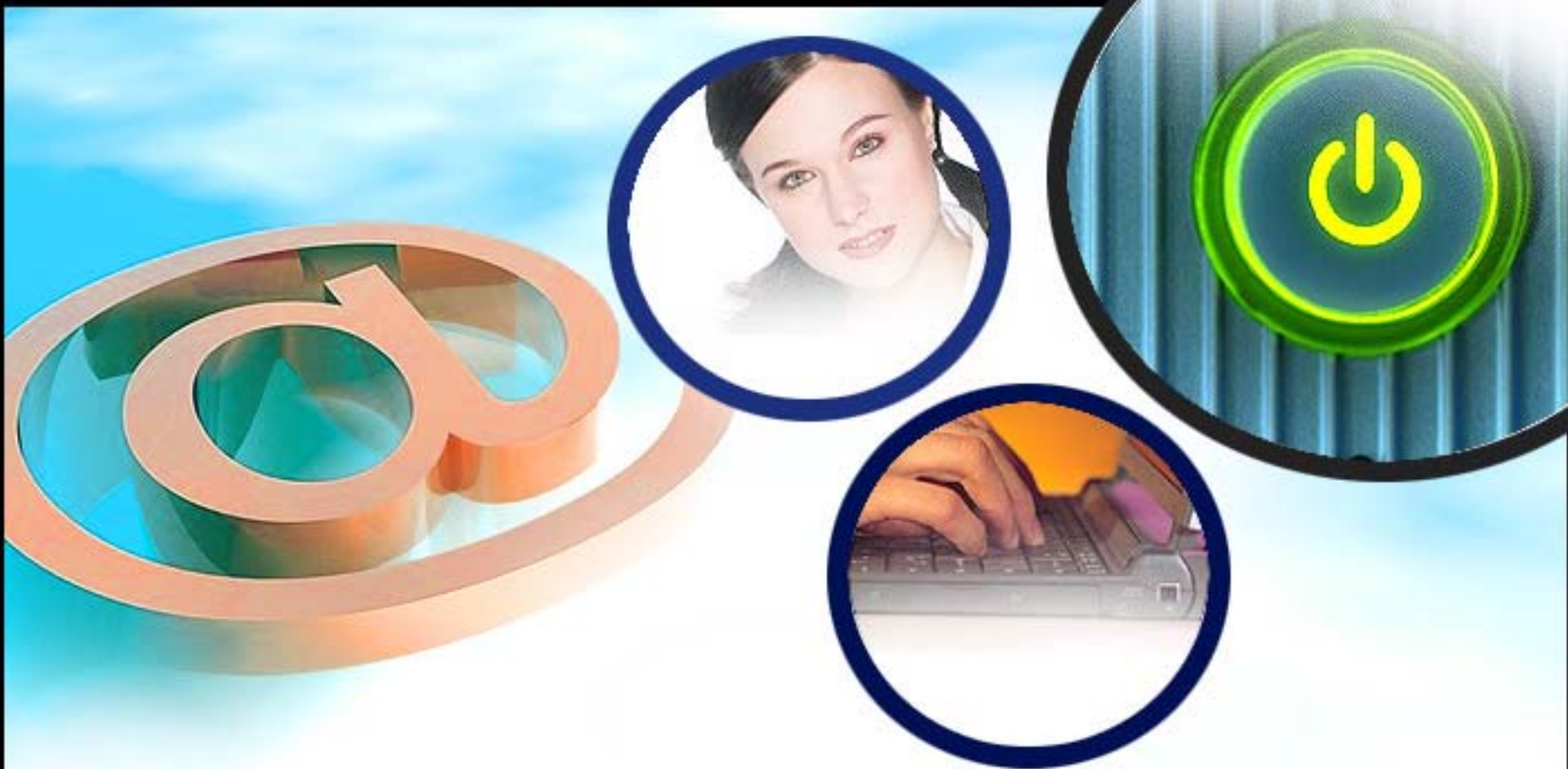
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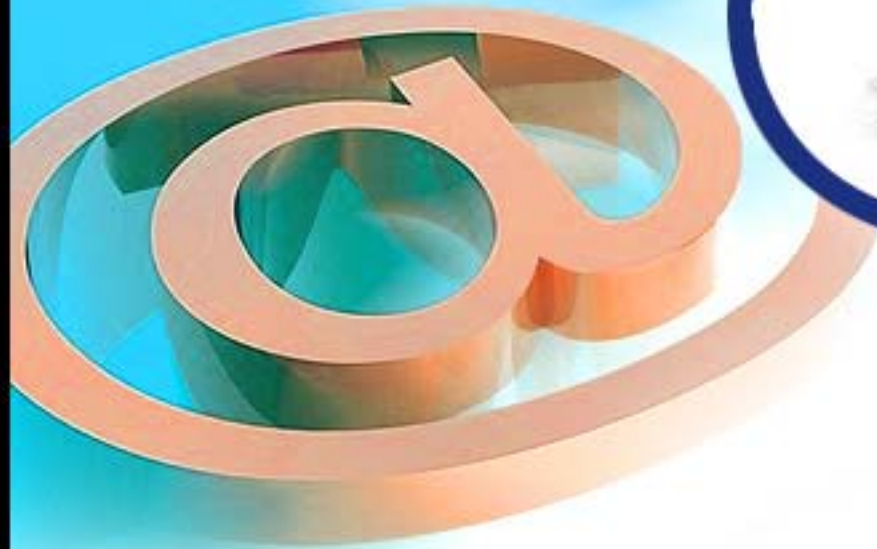
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Grand Rapids, Michigan. MAHPERD Presentation.**





Why get Connected through
Technology?



http://www.youtube.com/watch?v=_A-ZVCjfWf8&feature=fvw *

and

<http://www.youtube.com/watch?v=tahTKdEUAPk>

Then vs Now

Analog ⇒ Digital

Tethered ⇒ Mobile

Isolated ⇒ Connected

Generic ⇒ Personal

Consumption ⇒ Creating

Closed ⇒ Open (Wiley, 2008)



Education vs Daily Life

Analog ⇒ Digital

Tethered ⇒ Mobile

Isolated ⇒ Connected

Generic ⇒ Personal

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Most of our students
are...

Digital Natives

See: <http://www.marcprensky.com/writing/Prensky%20-%20Digital%20Natives,%20Digital%20Immigrants%20-%20Part1.pdf> article



Most of us: aliens or “digital immigrants” ...

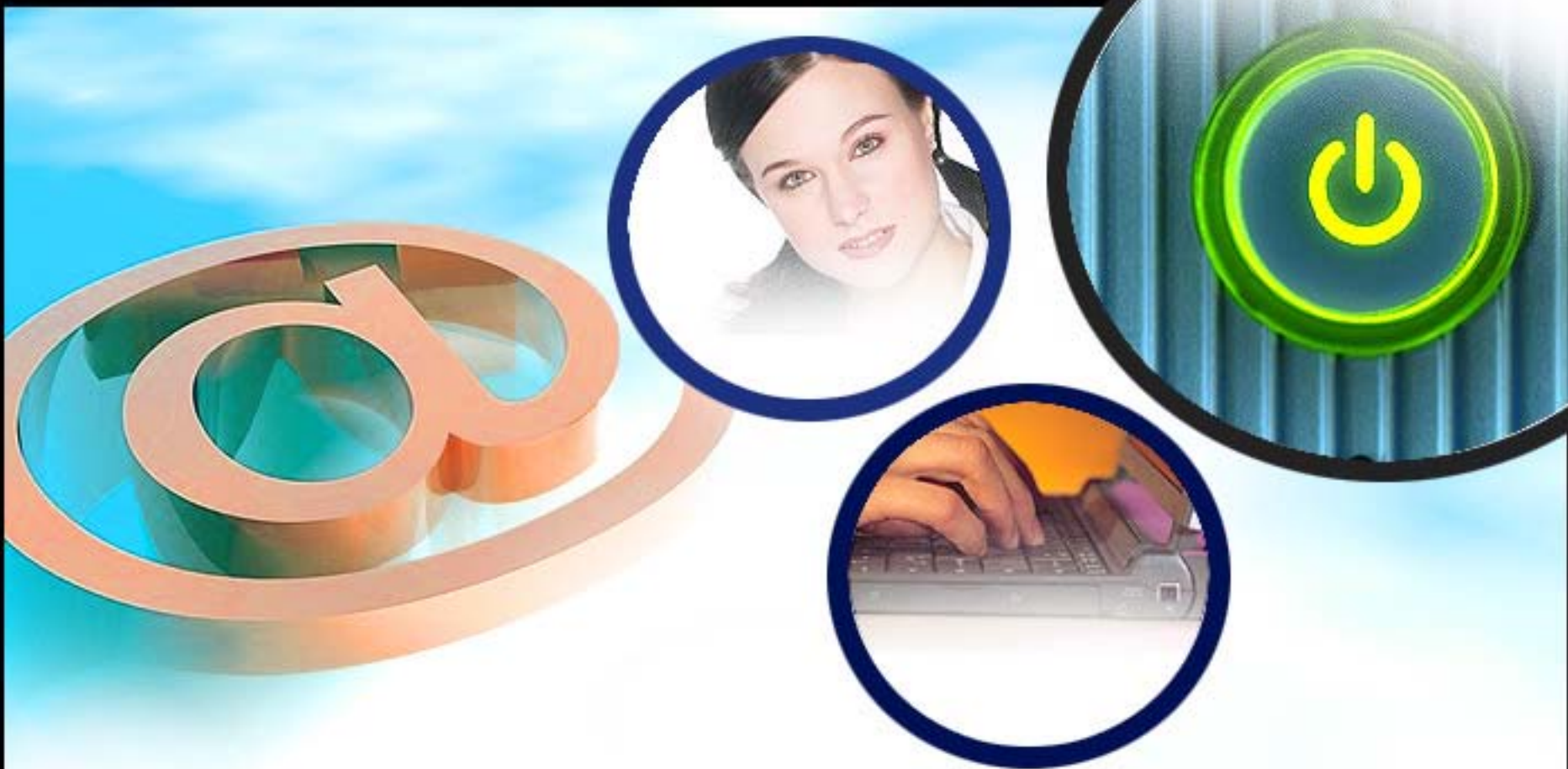
According to Prensky (n.d.) the typical process of technology adoption by teachers is a four-step one:

- *Dabbling.
- *Doing old things in old ways.
- *Doing old things in new ways. (Phases 1 & 2)
- *Doing new things in new ways. (Phase 3)

Don't forget to ask the digital natives, the students.... From Prensky (n.d.):

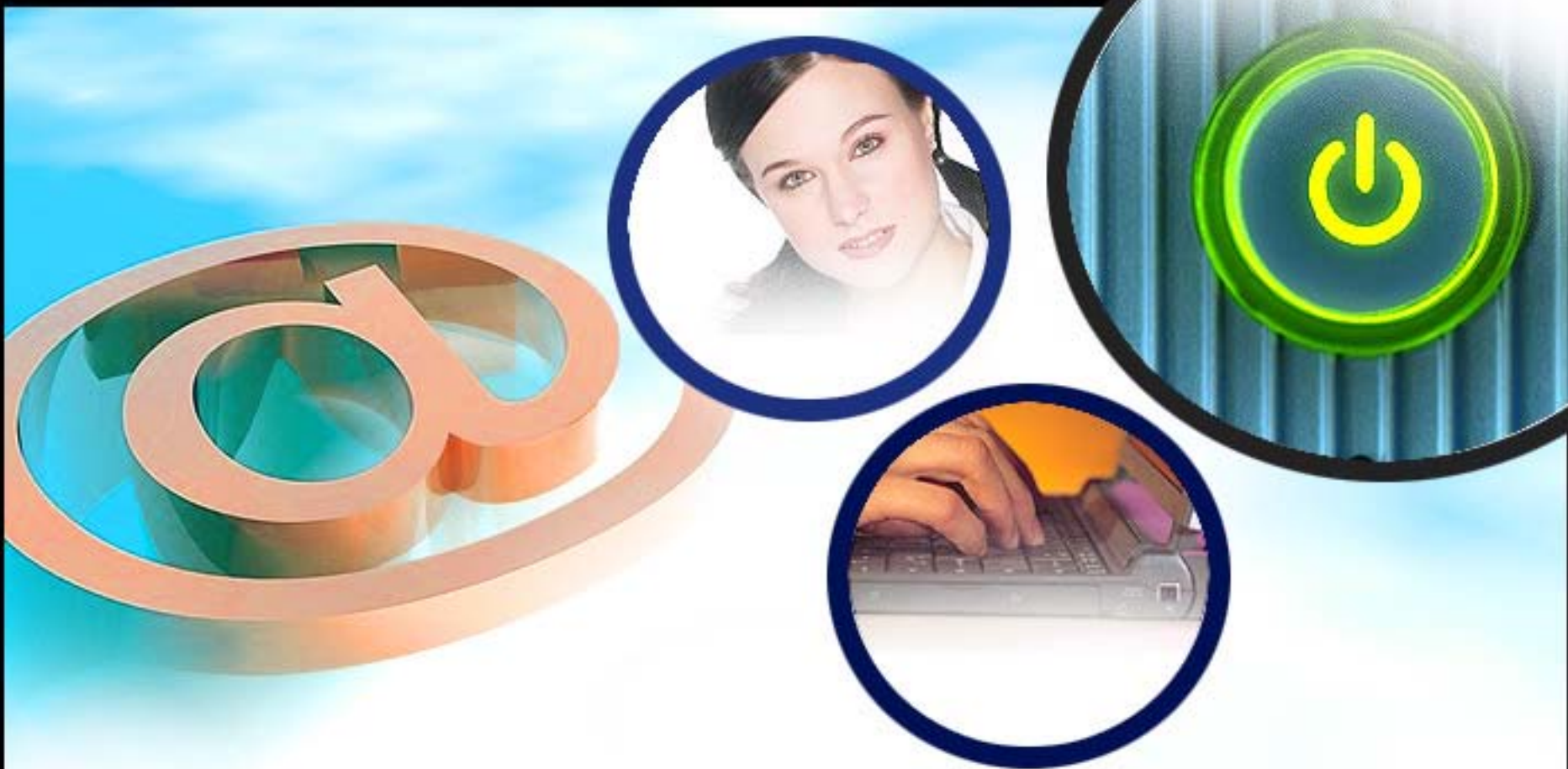
<http://www.edutopia.org/adopt-and-adapt>





Need for new pedagogical DNA? *

<http://www.youtube.com/watch?v=I72UFXqa8ZU&feature=related>



What might that new pedagogical DNA look like?

Technology in the classroom

<http://www.youtube.com/watch?v=nJ0nlh5FU5A> *

A conceptual model...

3 Phases of Teaching with Technology by J. Leister:

<http://www.youtube.com/watch?v=-lr4-EFVhzi&feature=related> * video

Webpage

<http://www.sanjuan.edu/webpages/jleister/>



What are some phase 1 activities and technologies you can think of or you've used?

That is... how have you done old things in new ways?

e.g., powerpt for overhead



WWW

Phase 1 Trends – doing old things in new ways...some examples

PowerPoint or Prezi (<http://prezi.com/>), Slideshare Flip, Recorders (podcasts/videos) or Digital Storytelling (http://digitalstorytelling.coe.uh.edu/movie_health_01.html)

Clickers (www.polleverywhere.com)

Smartboard (<http://www.lasvegasweekly.com/news/2010/aug/26/chalk-dust-whats/>)

Online books; Social bookmarking (Delicious)

Email/texting: ways to communicate with students

Youtube ; Camtasia ; RSS feeds ; Dashbards (netvibes)

Wikis <http://www.wikispaces.com/site/tour>

/Blogs/Twitter/Facebook or other social media

Mobile (ipods; smart phone);Wapedia <http://wapedia.mobi/>

Streaming videos/documentaries, etc.

Virtual Worlds/Games Second life <http://secondlife.com/>

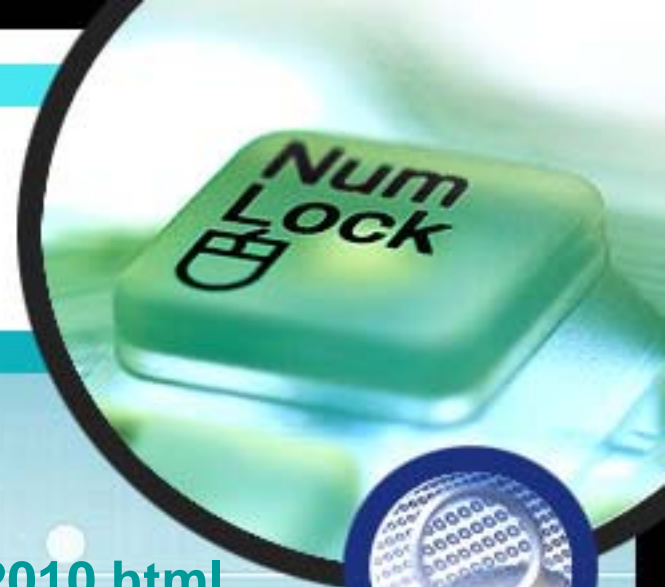
Course Management systems (Webct)Online Tests...



Top 100 tools for learning and connecting:

See:

<http://www.c4lpt.co.uk/recommended/top100-2010.html>



WWW

Definitely Check out:

7 things you should know about _____ at **Educause**... <http://www.educause.edu/ELI7Things> and click on the pdf files...

e.g., 7 things you should know about:

Wikis <http://net.educause.edu/ir/library/pdf/ELI7004.pdf>

Social bookmarking <http://net.educause.edu/ir/library/pdf/ELI7001.pdf>

Also, **Merlot** is another technology organization you may want to belong to... <http://www.merlot.org/merlot/index.htm> and see <http://pedagogy.merlot.org/>

And **Sloan Consortium** <http://sloanconsortium.org/>

Harvard Ed <http://learnweb.harvard.edu/ent/home/index.cfm>



Phase 2 Trends –focus on student using tech for engaged learning...

Students using the Internet and other technologies (vs texts) to access content knowledge...

Web searches/quests, Wikispaces and Online Encyclopedias

Apply to traditional research paper, etc.



Phase 3: Creativity

Integrating Content and Content Standards with Processes (self-directed learning, critical thinking, communication, team learning and collaboration, creativity, self- and peer-assessment)

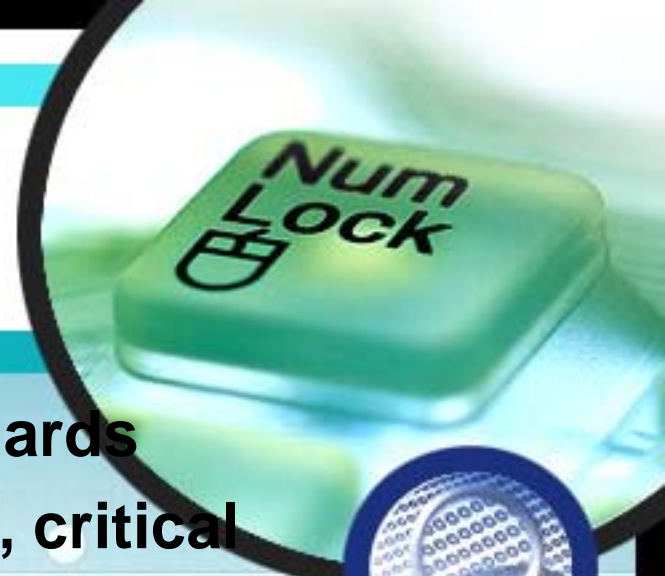
Making students creators by developing products/artifacts and publishing them online.

21st Century Skills:

Communication

Collaboration (Networking)

Creators



Some examples of Phases...

<http://www.edutopia.org/harrison-high-school-technology-integration-video>

See above for examples of integrated tech schoolwork from Edutopia. *

Project based learning <http://istelearning.org/> and see <http://www.rmcdenver.com/useguide/pbl.htm>

And... my examples ... integrating content and processes Phase 2 and moving to Phase 3...

<http://wiki.acs.nmu.edu/hl367>

<http://wiki.acs.nmu.edu/hl440>

https://wiki.acs.nmu.edu/hl368/index.php/Main_Page

Student creation ; peer and self-assessment.

But I want to get to the student publishing stage.



Any phase 2 or 3 you have tried?

Were they effective?



98

45

WWW

Paradigm Shift to learner -centered which Web2.0/technology enables:

As per Barr & Tagg (1995) – from teacher-centered to learner-centered:



Teacher –centered mission	Learning-center mission
·Provide/deliver instruction	·Produce learning·
·Transfer knowledge from faculty to students	Elicit students’ discovery and construction of knowledge
·Improve the quality of instruction	·Create powerful learning environments & Improve the quality of learning

A paradigm shift

The need for teaching for nimble learners, for understanding, and for the unknown...

http://wideworld.pz.harvard.edu/en/reimpact/video_david_perkins.html



Plus new “idea technologies” ...

Learning Theory Models:

http://en.wikipedia.org/wiki/Learning_theory_%28education%29

***Behaviorism... Instructional Paradigm/Teacher-centered.**

Teaching is telling; learning is listening

***Cognitivism... Brain-based; information processing system.
Cognitive load factors in. Is the learner ready to learn?**

***Constructivism...views learning as a process in which the learner actively constructs or builds new ideas or concepts based upon current and past knowledge or experience. Active Learning, Project Based Learning, etc.**

****But...A central tenet of most learning theories is that learning occurs inside a person. They don't take into consideration social learning... being connected and learning in networks (Siemens, 2004)**



Connectivism: “Knowing where”

“Connectivism” by Siemens (2004) as learning theory

<http://www.elearnspace.org/Articles/connectivism.htm>

Including technology and connection-making as learning activities begins to move learning theories into a digital age....

Connectivism is driven by the understanding that decisions are based on rapidly altering foundations. New information is continually being acquired. The ability to draw distinctions between important and unimportant information is vital. The ability to recognize when new information alters the landscape based on decisions made yesterday is also critical.



A Vision of K-12 Students Today

Students will use engaging technologies in collaborative, inquiry-based learning environments with teachers who are willing and able to use technology's power to assist them in transforming knowledge and skills into products, solutions, and new information.

Students as co-creators of knowledge... knowing where to find info; participatory culture



http://commons.wikimedia.org/wiki/File:Working_Together_Teamwork_Puzzle_Concept.jpg

Students need to develop their professional intellect...

Professional intellect (Quin et al, at:

<http://books.google.com/books?hl=en&lr=&id=tOjleHACgiMC&oi=fnd&pg=PA87&dq=developing+professional+intellect&ots=dnm3dZzKM&sig=0JBp1yRvTPSqRx2NcY5TgsB5FWI#v=onepage&q=developing%20professional%20inte>)

Know what

Know how

Know why (systems understanding)

Care why (motivation and ethics)

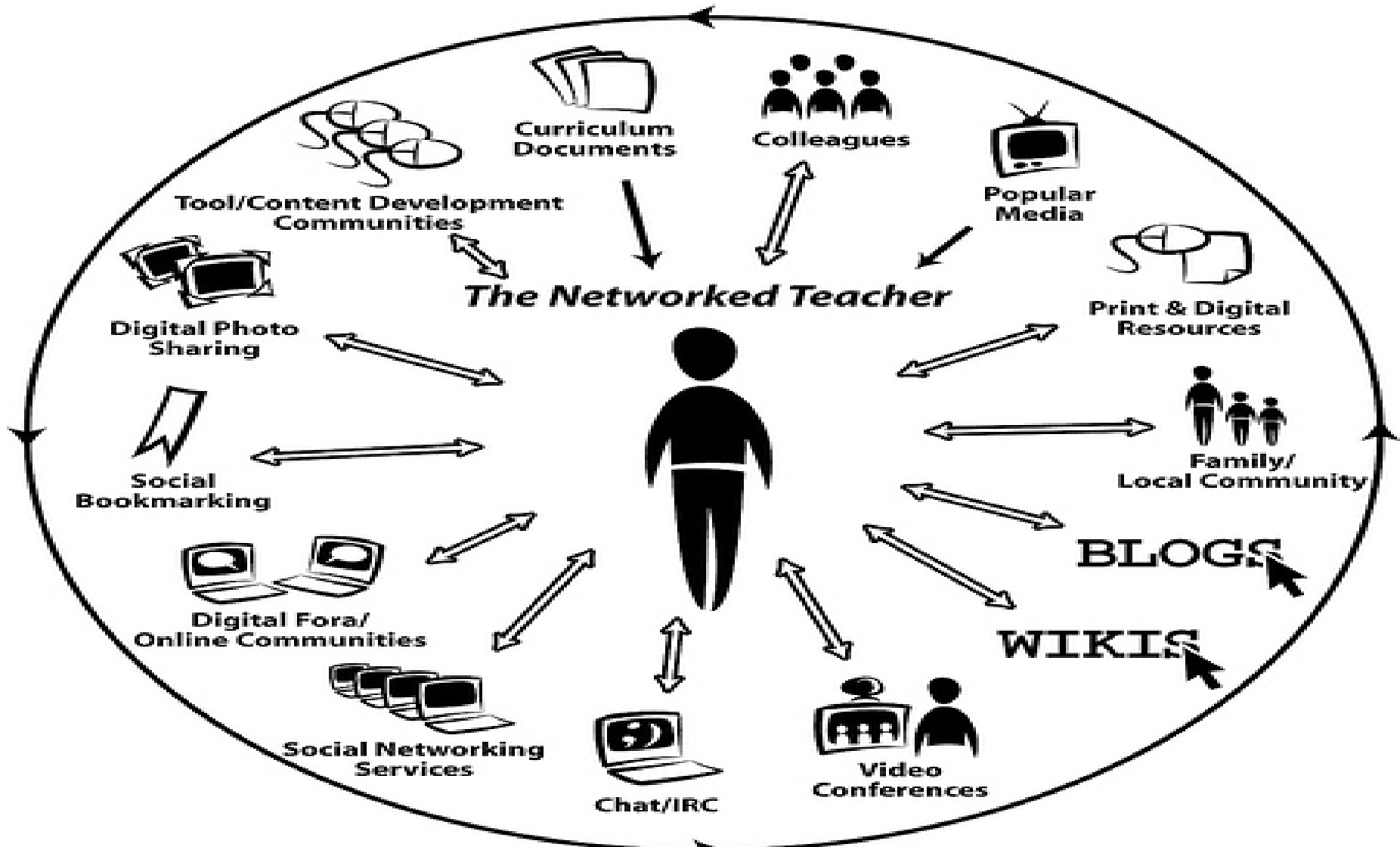
And **know where**... to find information. (Siemens, 2004)



A way to think about...

"The Connected Teacher":

<http://pwoessner.com/2008/12/15/21st-century-literacy-network-literacy/>



Barriers and Facilitators

If you are interested in engaging more technology (including idea technology) in the classroom, you are more likely to do it if:

You know what to do

You know how to do it

You want to do it (motivation)

You believe you can (self-efficacy)

And. You have a supportive environment (network 😊)

What facilitators and barriers do you see?



References & Resources

A vision for K-12 students today

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Barr & Tagg (1995) <http://ilte.ius.edu/pdf/BarrTagg.pdf>

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<http://www.teachervision.fen.com/thanksgiving/teacher-resources/6670.html>

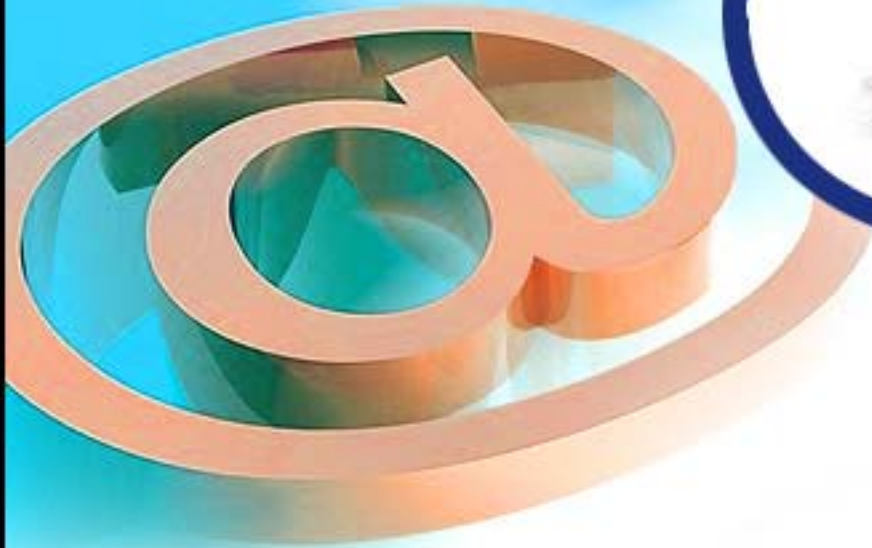
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Thank you.
