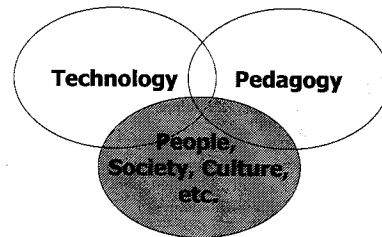


Schools and ICT—What the Future Holds

Curt Bonk, Professor, Indiana University
President, SurveyShare, Inc.
cjbonk@indiana.edu
<http://php.indiana.edu/~cjbonk>
<http://SurveyShare.com>



Nature and Nurture: An Interactional Model



Poll #1. What are you???

- A. Teacher, instructor, teacher assistant
- B. Counselor, school psychologist
- C. Curriculum specialist, developer
- D. Instructional designer, technology specialist, multimedia developer
- E. School administrator, principal, head
- F. Government official, policy thinker
- G. Student
- H. Other



Poll #2:

Raise your hands if you are a digital native
(grew up with a computer at home).



Poll #3: What age learners are you interested in?

- a. Ages 1-5
- b. Ages 6-10
- c. Ages 11-15
- d. Ages 16-20
- e. Ages 21+



Poll #4:

What age learners is online
education growing the most in UK?

- a. Ages 1-5
- b. Ages 6-10
- c. Ages 11-15
- d. Ages 16-20
- e. Ages 21+



**Poll #5:
Should kids be allowed to bring mobile phones, MP3 players (iPods) to school?**

MiamiHerald.com

EDUCATION | CLOSING YOUR BOARD OK's flip-flops, but iPods are OFF

Flip-flops are in for high-achieve kids, out for everyone else. Also out: bedroom slippers, unshowered clothes, iPods and laptops.

**E-learning + Scotland = Major success,
May 21, 2006**

<http://www.sundayherald.com/55719>

"THE school of tomorrow will not be at the end of your street. It will be everywhere, and getting there will only take a click of a mouse. In this vision of the future, every school will have a web portal where the pupils, parents and teaching staff will have the opportunity to interact and share information. In this virtual space, lessons will be beamed direct to anyone who wants to attend, while all the teaching materials required can be downloaded in a trice. Video conferencing will facilitate group interaction while scholars from Tokyo to Tomintoul (Scotland) will log on to their personalised home pages to upload course work, view their marks or receive news about the wider school community."

**Telegraph:
Flattening the world in 1860**

Blogging now begins young

Mobilis have 'key role for young'

Eighth-grade students Tayer Bernholtz, left, Amy Lostron and Kelsey Cardiff check out a weblog discussion related to the Civil War historical-fiction book 'Guerrilla Season' At South Valley Junior High School in Liberty, Mo. (Blogging now begins young USA Today, By Ashley Bleimes, USA TODAY, November 15, 2006, 12D). http://www.usatoday.com/life/2006-11-14-blogs-education_x.htm

**NEW... LOW COST
Audio Visual Method
WITH DISCUSSIONAL CONTROL**

EXCITEMENT IN LEARNING

Dukane Corporation

**AMERICAN OPTICAL
OPAQUE PROJECTOR**

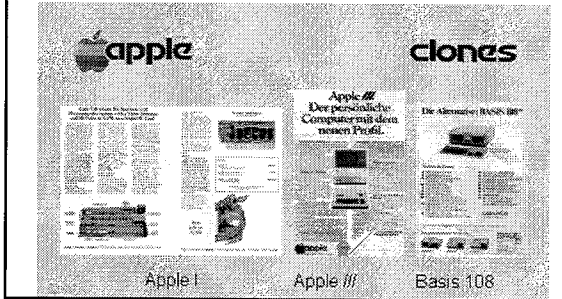
Technology of the 1980s

The New Handy 1000 EX

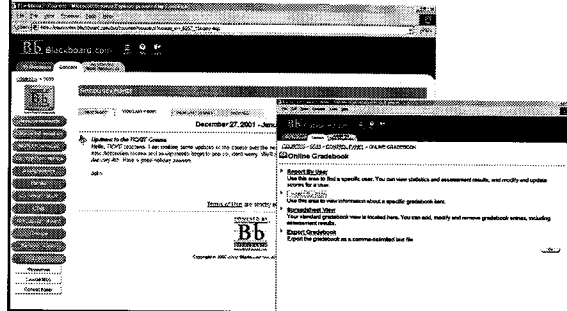
Comes with an 80088 Mother and no extra charge

Only \$799

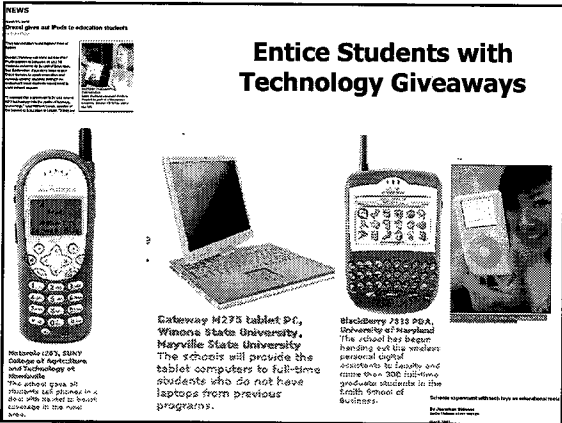
Technology of the 1980s



Technology of the late 1990s: Course Management Systems



Entice Students with Technology Giveaways



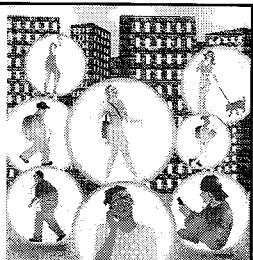
Technologies of the 2000's



Tech creates a bubble for kids

By Steven Johnson, USA TODAY

Like the bubble that got her mother's attention, she's a social media star. She's a 12-year-old girl named Lacey, and she's the star of a new TV show. She's also the star of a new book, "The Social Network," which is a collection of stories about young people who are using technology to connect with each other.



Alejandro Gonzalez, USA TODAY,
Updated 6/20/2006 10:34 AM ET

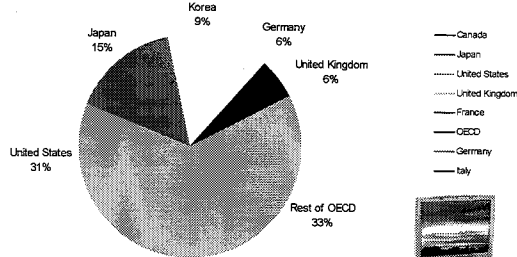
A Different Generation??? Multitasking... "YOUNG AND WIRED," Katherine Seligman, San Fran Chronicle, Sunday, May 14, 2006



Gloria Kwan listens to her iPod while text
messaging a friend who's in class.
Chronicle photo by Mike Kepka

Increased Broadband Access

Total broadband subscriptions, percentage of OECD, top 5 countries, June 2005

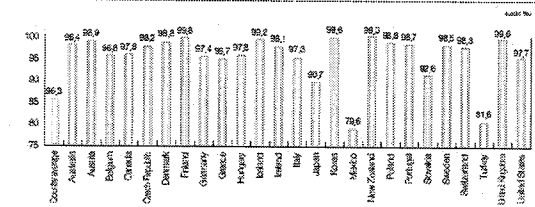


Source: OECD



Adapting Education to the Information Age (Ministry of Ed and HRD, Korean Education and Research Information Service, 2005)

ICT use among students



Source: OECD, OECD PISA 2005 Database

Singapore and Taipei (Intel Press Release, 2006)

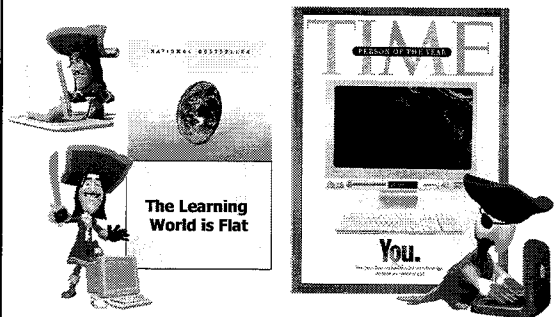
- Singapore, the island city-state in Southeast Asia, is about to complete a major new public/private project that will see large chunks of the 270 square mile city provided with Wi-Fi access by the end of 2008. The entire city, indoors and out, is due to be covered by 2015.
- In the coldest capital in Canada, the city residents of Iqaluit (pop. 6,000) enjoy free wireless from one free hotspot (with two more due soon to cover the suburbs), while Taipei, Taiwan (pop. 2.6 million) has a few more—over 4,000 hotspots that provide coverage for 90 percent of the city.

Effects of interactive multimedia in distance learning

Giti Javidi and Ehsan Sheybani, 2004, In Proceedings of the IASTED International Conference WEB-BASED EDUCATION

"The advancement in technology is shaping every aspect of our life, including education. One decade ago, the Internet was not critical to education. However, now, it has become an integral part of learning process. Internet technology is having a dramatic effect on colleges and universities, producing what may be the most challenging period in the history of higher education."

The Learning World has become Flat!

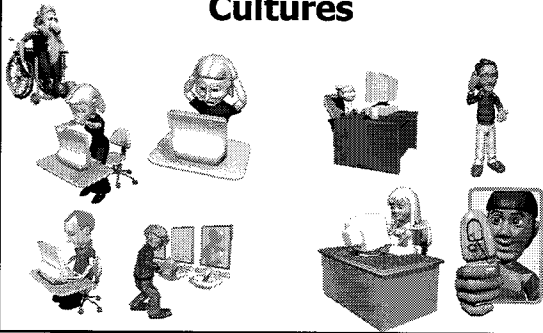


The Ten Forces that Flattened the Learning World

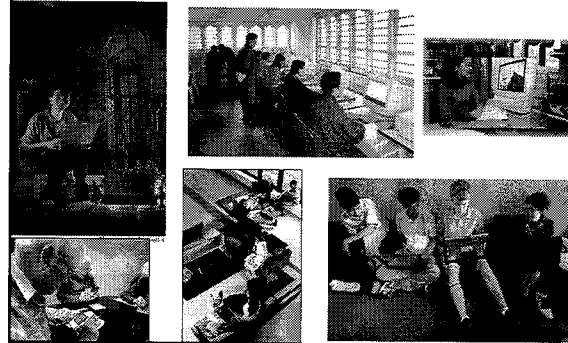
1. Tools for Searching and Finding Information (e.g., Google, Yahoo!)
2. Rise in Demand for Online Learning
3. Open-Sourcing Learning: Sakai, Moodle, eduCommons
4. Collaboration (e.g., SharePoint, Groove, Word, Interwise, Breeze, Google Talk, Skype)
5. Learning Portability (Podcasting, Mobile technology)
6. Learner Empowerment and Individualization of Learning (Blogs, Wikis, etc.)
7. Online Portals of Information
8. Online Learning Object Repositories (MERLOT, Connexions, Careo, Jorum)
9. Open CourseWare (MIT OCW, Utah State, Johns Hopkins, Japan, CORE, OOPS)
10. Knowledge Brokers and Collectors



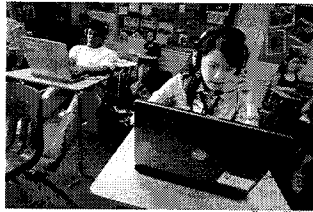
Part I. People, Society, and Cultures



Who is demanding online learning?



"YOUNG AND WIRED, Computers, cell phones, video games, blogs, text messages -- how will the sheer amount of time spent plugged in affect our kids?"
 Katherine Seligman, San Fran Chronicle,
 Sunday, May 14, 2006



Harker student Stephanie Li (wearing a false nametag), during language class, recording her voice in Spanish for the teacher to evaluate later. Chronicle photo by Mike Kepka

Yahoo News
"Love me, love my blog," as Netorati couple-surf
 BY SARA LEDWITH Thu Aug 3, 8:30 AM ET

- Nick Currie and his girlfriend Shizu Yuasa (R) surf the internet over breakfast in Tokyo in this handout photo. As the Internet evolves -- with its webcams, iPods, Instant Messaging, broadband, wi-fi and weblogs -- its image as a relationship-wrecker is changing. Now a sociable habit is emerging among the Netorati: couple-surfing. (Nick Currie/Handout/Reuters)
- "For my birthday, he upgraded my RAM and I thought it was incredibly romantic," writes Jess.



INFORMATION TECHNOLOGY



Internet Use by Age

Susan D. Patrick, President and CEO
 North American Council for Online Learning

