



Clicks and Bricks... the writing on the wall.

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How do I decide what technology tools to use?

“Effective teaching with technology matches the teacher's goals and the learner's characteristics and needs, with tools that enhance understanding.”

Tools can amplify face-to-face learning

- [Baskets](#)
- Organize selected resources
- [Definitions](#)
- Display the characteristics of a concept
- [Screenings](#)
Show and explain a process
- [Scripts](#)
Structure thinking steps
- [Packages](#)
Deliver container of information

Sharing economy

- Barter, swap, exchange, trade
 - [Daedalus and Icarus](#)
- Reusable learning content
 - [Inquiry research](#)
- Open source software
 - [Structured communities](#)

Tools can manage content and facilitate collaboration

Classroom metaphor

– structured communities

Decentralized, peer-to-peer

– communities of practice

Role of librarian in online learning

- Design and deliver **information literacy instruction** through tutorials and interactive Web pages;
- Select and provide **access to resources** like subscription and deep Web databases, full-text e-books and high-quality open Web sources;
- Develop **experiences** like virtual trips, interviewing and conferencing

Role of librarian in online learning

- Construct online **learning spaces** for group collaboration, displays of student work and performances of learning;
- Provide both real-time and asynchronous **reference** assistance;
- Create and administer **assessments** of student learning and program effectiveness

Convergence

- Expensive bricks and low-cost clicks
- Low-cost bandwidth and storage
- Collaborative environments and desktop games
- Open source software and commons initiatives
- Social networking and new peers
- Handheld, multipurpose devices

Edutainment → Games *for* education (“social impact” games)

- [SimCity](#) (Electronic Arts)
- [Civilization III](#) (Firaxis Games)
- [Making History](#) (Muzzy Lane)
- [Quest Atlantis](#) (Indiana/NSF)
- [SimSchool](#) (PT3 Dept. Ed.)
- [The Education Arcade](#) ([Games-to-Teach](#) MIT/ Microsoft)
 - [Revolution](#) (BioWare/Colonial Williamsburg)
 - [Environmental Detectives](#)
- [Serious Games Initiative](#) (Wilson Cntr./Scholars)

“Immersive”

- Multi-sensory
- Contextualized application of skills
- Real-world, problem-based
- Emergent communities of practice
- Just-in-time feedback
- Embedded assessment
- Can promote reflection and mindfulness

3) Direct Student Services

- ☞ **Spanish Literature.** Another advanced placement class - this one in Spanish Literature - used LinkWorld to offer students a chance to visit with Latin American authors, living and deceased. The AP Spanish Literature students each researched one writer in great depth. Then they met in LinkWorld with other Spanish classes and played the role of the authors. The AP students were required to know their chosen writer so well that they could answer questions about their lives, times, and writings accurately.
- ☞ **Art Show.** Art students, who were studying Cubism, created their own paintings. Their art works were displayed in LinkWorld, along with a history and evaluation of the Cubist artistic movement. The students discussed their paintings with people who dropped into the art show, people from around the world including the Director of an important art museum in Amsterdam.
- ☞ **Ethics of Biotechnology.** Bioloj students researched the pros and cons of biotechnology and met in LinkWorld for a vigorous debate. The debate judges were in New York.

- ☞ **Dramatic Presentation.** Drama students researched the Commedia dell' Arte, a comedy form popular in Italy in the 16th and 17th centuries, created a script, and performed their play in the virtual world. The live audience included people who were physically in the United States and Europe, but virtually present at the drama presentation.



River City @Harvard



SciCentr @Cornell





The Red tree frog is a tiny hunter. He spends his day in the canopy, hunting for insects and other small prey. Red-eyed tree frogs hunt their prey at night. The red-eyed tree frog is not toxic, and its only defense against predators is its bright colors.

The red-eyed tree frog is named after its red eyes. The red eyes are used to attract females. The females lay about 60 eggs at a time. Adult red tree frogs spend most of their life in the rainforest.



Immigration Officer: Thank you for visiting CUCor, Cornell University's universe of virtual worlds for science, technology, engineering, and math education. Welcome World features our current exhibits.
Immigration Officer: Welcome to SciFair 2004 - Lincoln Orens, queenbee
Immigration Officer: Welcome to the Rainforest!

Wow! How do I play the game?

Whisper To [LogBotLOMS2] Can u help me?

Role of Librarian in Constructivist Gaming

- Investigate game initiatives
- Become involved in game development
- Participate as avatars in simulations to coach the use of primary resources and information
- Teach the information literacy process to students developing virtual worlds
- Revise selection and AUP policy
- Revise library rules
- Spearhead the development of a plagiarism/ethics policy



The only books you'll need.



The
“digestion”
model of
technology use



“Potential” of Tools

**Technology does not alter
teaching and learning,
teachers and students do**



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