



Issues in
Technology and Education

EDUC 540
2nd Summer Session 2006



Topics

- What is technology?

- How do education and technology mix?

There are many questions to consider in education. Here are two basic ones to get started...

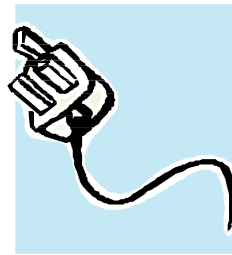
First, what will we call a technology?

Then, how will technology impact education, both your practice as a teacher and in the process of learning?

Finally, and most important to this class, how do these two ideas interact?

What is a Technology?

- Everything invented after you were born
- Anything that needs to be plugged in
- An artifact
- A strategy




Pause for definition to write on the board.

How broadly or narrowly is technology used? What qualities make something a technology?

Technology in Education

- Film
- Radio
- Television
- Computers
- Was there return on investment?

The image contains several illustrations: two film reels with a strip of film connecting them; a vintage red and brown radio with a speaker grille; a television set on a tripod stand with a colorful screen; and a woman with glasses sitting at a desk using a computer. The entire content is enclosed in a rectangular frame.

What technologies have been used in education? And for how long?

First, these are all MEDIA technologies. Media have been used since the beginning of the 20th century, always with a promise to revolutionize education.

Always with failure as a result.

Learning Theories

- Three basic views of mind
 - Behaviorist
 - Cognitivist
 - “Constructivist”
- Does technology favor one over the other?



Tomorrow we will consider learning theories more deeply, but in thinking about technology and learning we must start with a concept of what learning is.

Then, do new technologies favor one concept of learning over another?

Social Issues

- Internet and Free Speech
- Access
- Copyright



Media technologies dominate global communications these days. With this comes a number of issues and responsibilities.

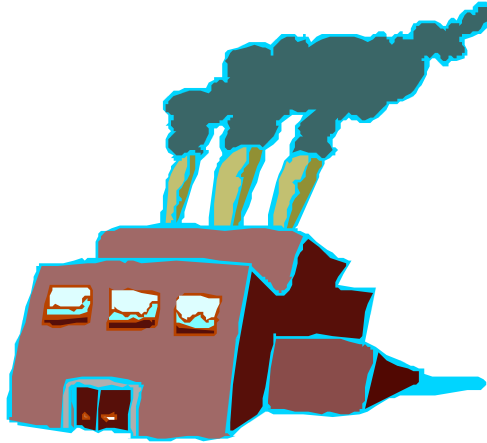
How has the Internet impacted free speech? Are we closer or further apart?

Who has access? Do we exclude the poor, by gender, by physical ability?

And issues of ownership are also important.

Technology and Standards

- NCLB
- SOL
- ISTE
- Oh my...



How is the use of technology regulated? What are considered proper uses by government agencies and student parents? Who are all these acronyms and what are they doing in the classroom?



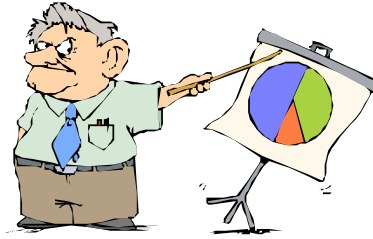
The Information Society

- Do we need new skills?
- Is school the place to teach them?
- Will they be relevant?
- What knowledge is of most worth?

Much of what is being discussed involves the idea of the “knowledge society”?
What does this mean. And is the school going to be able to adapt to its needs?

Does it Improve Education?

- Efficiency
- Effectiveness
- Performance
- Cost vs. Benefit

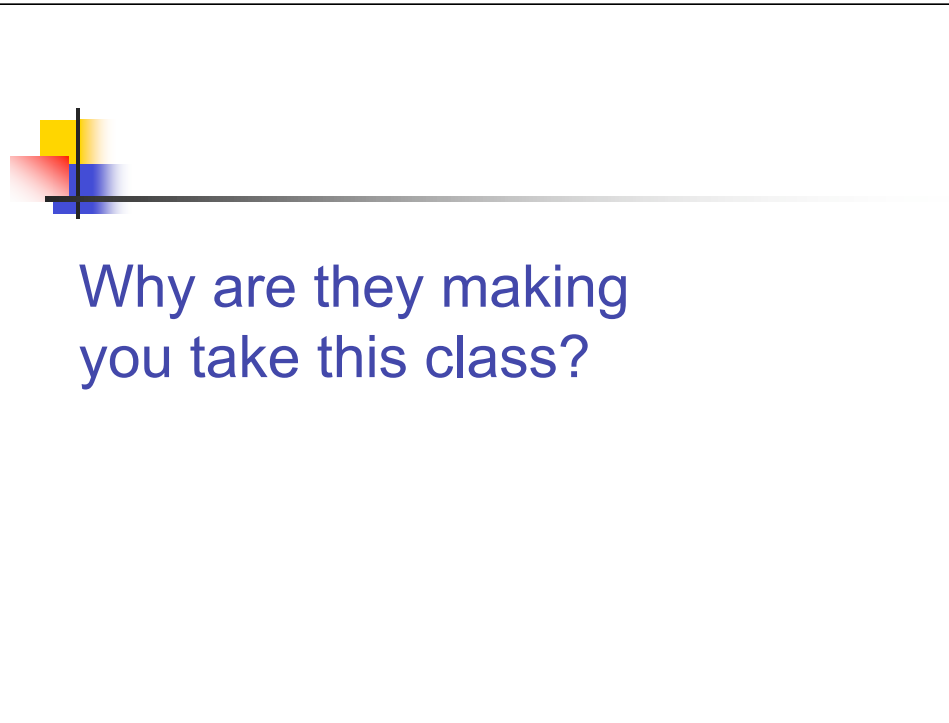


The bottom line is does technology improve teaching and learning?

Is the process of delivering instruction better facilitated by technology? Is the teaching act improved by the use of media?

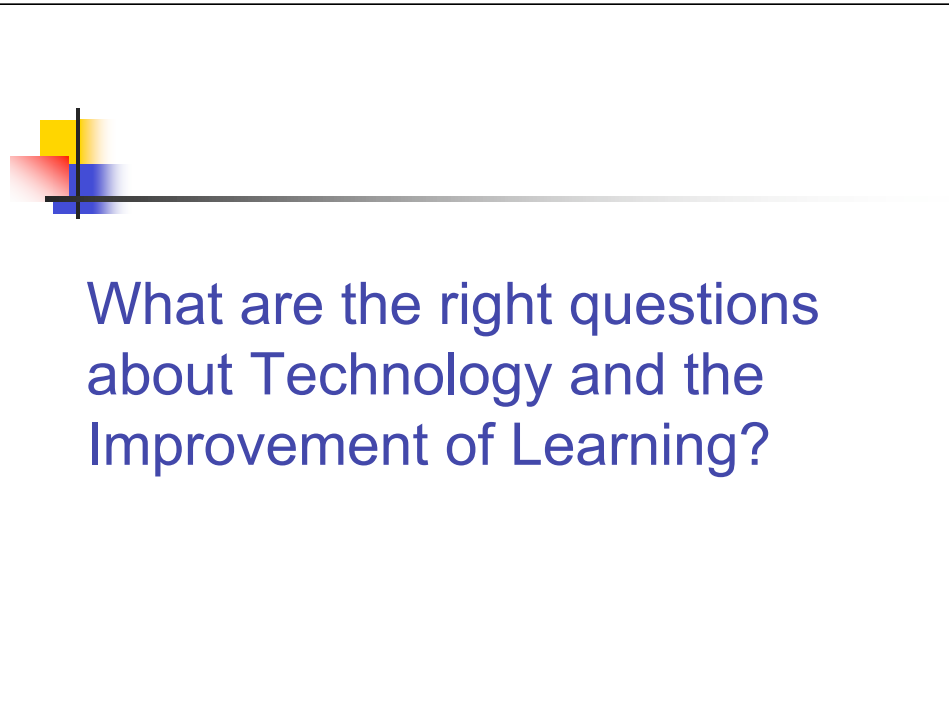
Do students learn better with computers/tv/whatever?

Is technology worth the cost?



Why are they making
you take this class?

This is required of you to gain your licence. Then later you will be required to take more technology courses to retain your license. Why?



What are the right questions about Technology and the Improvement of Learning?

What questions should we be asking about computers and education? Think of a good one, for you will be a research paper for this class and will need to get started now!