

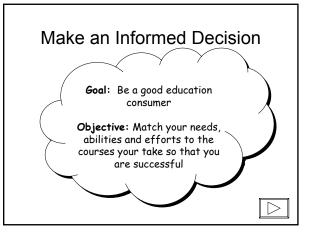
Top 10 (-4) List

- Pursuing MA in EDTEC, or interested in the practice of instructional design
- Looking to turn theory into application, apply models to the real world
- Long to go beyond whiz-bang techy-ness, to figure our what works with technology, and why
- Curious why people do, and don't, perform as expected
- Problem-solver... long to make things better
- Nosey like to look at situations, ask questions, determine what is going on... and why

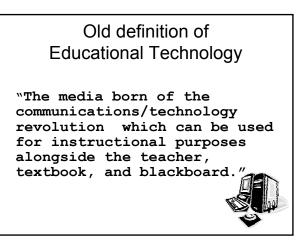








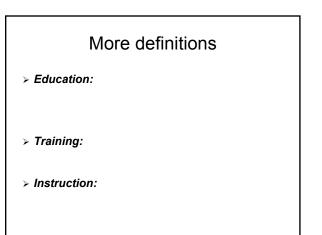




Newer definition of Educational Technology

"A systematic way of designing, carrying out, and evaluating the total process of learning and teaching, based on research in human learning and communication, and employing a combination of human and non-human resources, in order to improve human and organizational performance."



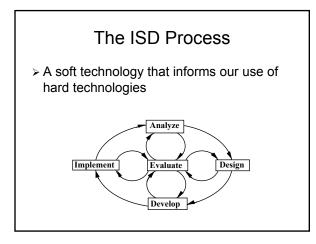


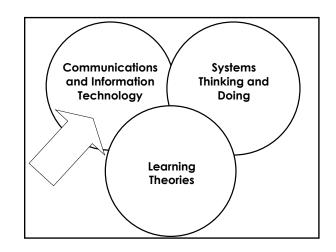
More definitions

- > Education:
 - the philosophies and practices which seek an increase of each individual's general capacities to function and thrive in society; learning to think; learning to learn.
- Training:
 - the endeavor to promote the acquisition of specific knowledge and skills; usually vocationally related.
- > Instruction:
 - the processes and products which facilitate planned changes in individual capacities, most commonly in knowledge and skills.

Educational Technology includes Hard & Soft Technologies

- Hard Technologies: the things, STUFF, tangible systems and products
 - a computer, a satellite, Internet Explorer
- Soft Technologies: the ideas, thoughts, planning systems, intellectual tools
 - a checklist for picking software; a theory about how to motivate people, a process by which successful instruction is created





Communications/ Information Technology

- > Comenius' illustrated textbook (1650s);
- School museums→media centers
- From visual instruction to AV
 - "Books will soon be obsolete in our schools."
- WWII training films
 - German chief, "We had everything perfectly calculated except...." [457 training films!!!]

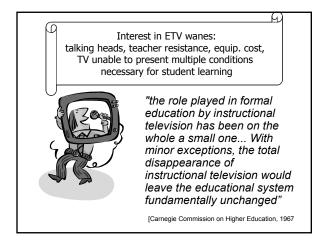
Edison, 1913

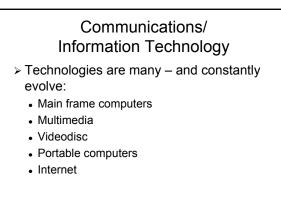
Birth of the IPISD

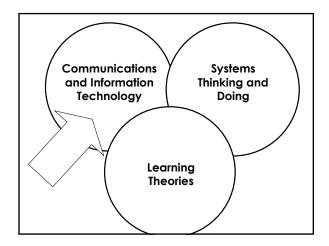
Communications/ Information Technology

- Aftermath of Sputnik: NDEA beyond hardware to communications theory (\$40M)
- FCC sets aside ETV stations
- Ford Foundation funds MPATI (and others to \$170M)



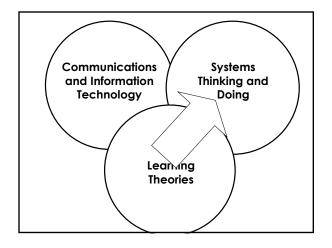


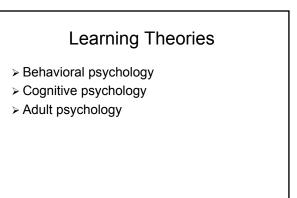




Systems Thinking and Doing

- > War effort: need for systematic approach to training-- >ISD
- > Systematic AND systemic
- "Self correcting process for planning, implementing and evaluating instruction to achieve a purpose." [Banathy]
- > Behavioral objectives movement
- > Task analysis linking work & training
- > Individualization of instruction; mastery learning





Behavioral Psychology

- > Concern with the learner 'doing it'
- Emphasis on breaking skills into that which is observable and measurable
- > Thorndike's Principals of Learning (1921), "learning would occur if subject matter were carefully refined and sequenced and students appropriately reinforced"
- > Examples?

Cognitive Psychology

- > Concern with the learner 'getting it'
- Focus on internal factors like understanding, valuing, interest, motivation, readiness, memory
- Interest in self-knowledge, selfassessment, construction of meaning
- Making connections content to existing scaffolding/schema
- Examples?

Adult Learning Theories

- > Importance of self-directedness in learning
- Willingness to learn is congruent with its relationship to personal goals
- Preference for need or problem centeredness, not subject driven approaches
- Need to attach instruction to that which is already known
- > Adults prefer active learning

Why use EDTEC?

- Large numbers, lower cost when a product or repeatable system in place
- > Anytime
- Anywhere—particularly appropriate for global settings
- > Individual choice; independent growth
- > Teach dangerous skills or those that need repetition

"Multimedia training has the potential to be very engaging, but it can also be deadly dull. A shiny CD-ROM or a trip to a jazzy WWW site is no guarantee of a rewarding learning experience.... came across some products that sucked the life out of topics like communication, coaching and leadership-- dynamic domains murdered by endless objectives, complex interfaces, and, worst of all, inauthentic tests and practices.

Bad training remained bad because of bad instructional design decisions. It was not at all improved by the color, sounds and action of multimedia technology."

[Rossett & Barnett, 1996, p.42]

Coming Attractions

> Next Week's Special Guest...

