EVOLVING EDUCATION IN A WORLD OF NEW TECHNOLOGIES

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WHAT HAVE I LEARNED IN 15 YEARS OF WATCHING TECHNOLOGY EVOLVE IN SCHOOLS?



I AM A QUALITATIVE RESEARCHER...ALSO KNOWN AS AN EDUCATIONAL ANTHROPOLOGIST





WATCHING TECHNOLOGY AND SCHOOLS EVOLVE...

1995-2000: Hanau/Hessen Model School Partnership— TERC and DODEA

STUDYING IMPLEMENTATION OF NETWORKED TECHNOLOGY IN A CLUSTER OF 4 K-12 DODEA SCHOOLS IN HANAU GERMANY

New Technologies

Extensive Professional Development

New Opportunities for Distributed Leadership

WATCHING TECHNOLOGY AND SCHOOLS EVOLVE

• 2000-Today: Planning, Technology, and School Improvement: UMass-Lowell



STUDENTS FROM AROUND THE WORLD INVESTIGATE TECHNOLOGY IN THEIR SCHOOLS



TECHNOLOGY CAN CHANGE VERY RAPIDLY

$\mathbf{1995}$

1996

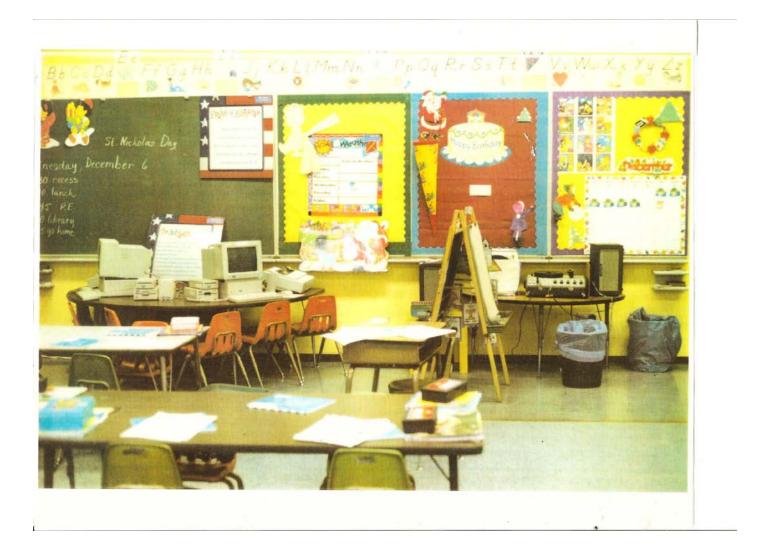




THE ARCHAEOLOGY OF EVOLVING TECHNOLOGY



TECHNOLOGIES ARE EMBEDDED IN PRACTICES AND EVOLVE IN RELATIONSHIP TO THE CONTEXTS OF THESE PRACTICES





Exp: Educational Technologists STRUCTURES Exp: IT Departm Exp: Sch Technolo Committ Departments Exp: School OUT OF TechnologyCommittees THE OLD CARVE NEW ROLES AND

FOR EDUCATORS AND SCHOOL DISTRICTS: TECHNOLOGY IS A GOOD THING AND TECHNOLOGY IS A BAD THING

Good Things

- Exciting New Media
- New ways to reach all learners
- New ways to experience the world
- New ways to connect to families and communities
- Improved accountability

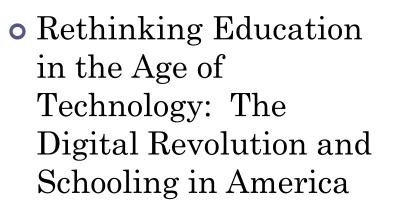
Bad Things

- It's so expensive!
- It keeps changing!
- Isn't the old way OK?
- I don't have time to learn all this stuff.
- I have a virus...We've been hacked into...the server is down...etc.

Adults are Still in Charge: Young people need adults even more with the new technologies

- Young people absorb new technologies with ease, BUT
- The range of their technological experience and knowledge may be narrow.
- Young people are very vulnerable to the Internet and its potential dangers.

WHAT IS THE FUTURE OF THIS EVOLUTION IN TECHNOLOGY AND SCHOOLING?



• (Collins & Halverson, Teachers College Press, 2009)

Allan Collins



PREDICTIONS ABOUT THE FUTURE...SHIFTING FROM APPRENTICESHIP TO UNIVERSAL SCHOOLING TO THE ERA OF NEW TECHNOLOGY

Responsibility

Expectations

- Will shift from parents to the state to individuals and parents
- From social reproduction to success for all to individual choice

PREDICTIONS...

Content:

• From practical skills to disciplinary knowledge to learning how to learn

Pedagogy:

• From apprenticeship to didacticism to interaction

PREDICTIONS

Assessment

• From observation to testing to embedded assessment

Location:

• From home to school to anywhere

PREDICTIONS

Culture

• From adult culture to peer culture to mixedage culture

Relationships:

• From personal bonds to authority figures to computer-mediated interaction

EMBRACE THE FUTURE: WE HAVE NO OTHER CHOICE!

