



Effective Integration of Technology

Presented by
Education Service Center Region 12

Changing Education for a Changing World

Industrial Age

- Instruction
- Sage on Stage
- Simple Problems
- Independent
- Competition
- Learning Info



Knowledge Age

- Construction
- Guide on Side
- Complex Problems
- Interdependent
- Competition and Cooperation
- Learning to Learn

What are the essential skills today's students will need for their future success?

New Workplace Skills

SCANS 2000

- The ability to productively use:
 - Resources
 - Interpersonal Skills
 - Information
 - Systems
 - Technology
- Foundational skills include:
 - Basic skills, Thinking skills, Personal qualities

21st Century Skills

- Knowledge of core subjects
- Critical Thinking
- Decision-making
- Problem solving
- Communication
- Ability to adapt to a changing world

View the [21st Century Skills Overview](#)

Information Literacy

An information literate individual is able to:

- Determine the extent of information needed
- Access the needed information
- Evaluate information
- Incorporate selected information
- Use information effectively
- Understand the economic, legal, and social issues

Technology Increases

Apple Classrooms of Tomorrow

- Collaboration
- Dynamic exploration of information
- Problem solving and experimentation
- Social awareness
- Independence
- Computer use
- Positive orientation to future

The ACOT Question(s)...

“What happens when students and teachers have ubiquitous access to technology?”

“How do you prepare and support teachers to take advantage of technology’s potential?”

Apple’s Legacy

ACOT is the Research Standard

- NCATE
- U.S. Dept. of Ed
- State Reports
- CEO Forum
- Milken Exchange
- ISTE Standards



The Evolution of Thought and Practice

Innovation
Appropriation
Adaptation
Adoption
Entry



Entry

Technology is a problem, an inconvenience

- Non-users of technology
- Minimal student technology use
- Disconnected technology use
- Traditional instruction

Adoption

Technology is seen as having some, limited utility

- Use technology for personal productivity
- Limited student technology use
- Traditional instruction

Adaptation

Technology used for traditional instruction

- Use technology for instruction
- Consistent student technology use
- Continue to do what they've always done, but now with technology
- Technology often an add-on

Appropriation

Technology becomes a powerful tool for learning

- What will this tool let us do?
- Powerful student technology use
- Changes in teaching practice begin

Innovation

Technology transforms teaching and learning

- Non-traditional classroom
- Powerful student technology use
- Student-centered, learner-directed
- Constructivist
- Project-based

Knowledge Age Learning

Effective Integration of Technology

- Engaged students
- Diverse roles – collaborative teams
- Analysis, synthesis and evaluation
- Knowledge-networking
- Complex problem-solving
- Diverse and innovative assessment



Think different.

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Q&A