SHELLY CASHMAN SERIES*

Teachers Discovering Computers
Integrating Technology and Digital Media in the Classroom 6th Edition

Chapter 1

Integrating Educational Technology into the Curriculum

Chapter Objectives



- Define curriculum-specific learning
- Explain the difference between computer, information, and integration literacy
- Explain the necessity of changing instructional strategies from traditional to new learning environments
- Describe the evolution of computers and digital media
- Differentiate among the various categories of computers

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Chapter Objectives Continued

- Explain why computer technology and digital media are important for education
- Describe the National Educational Technology Standards for Teachers (NETS-T) and Students (NETS-S)
- Explain why 21st century skills need to be incorporated in K-12 curriculum
- Describe the characteristics of today's digital students
- Describe six categories of what today's students need to know
- Provide examples of how computers are changing the way people teach and learn



Chapter 1: Integrating Educational Technology into the Curriculum

Curriculum-Specific Learning

 Learning how to apply teaching principles, knowledge, and ideas to authentic and practical classroom lessons and projects that can benefit your students

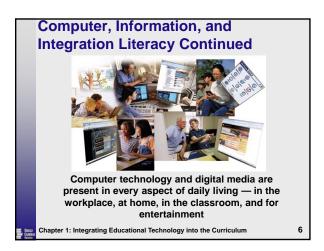
Refer to page 2 in your book



Computer, Information, and Integration Literacy

- Computer literacy
 - Knowledge and understanding of computers and their uses
- Information literacy
 - Knowing how to find, analyze, and communicate information
- Integration literacy
 - The ability to use computers, digital media, and other technologies combined with a variety of teaching and learning strategies to enhance students' learning

Chapter 1: Integrating Educational Technology into the Curriculum



What Is a Computer and What Does It Do?

- An electronic device, operating under the control of instructions stored in its memory, that can
 - accept inputted data
 - process the data according to specified rules,
 - produce results as output, and
 - store the results for future use
- A computer is a computational device



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What Is a Computer and What Does It Do? Continued Part 2

- Data collection of unorganized facts
- Information data that is organized, meaningful, and useful
- Input data entered into a computer
- Output processed results from a computer



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What Is a Computer and What Does It Do? Concluded Part 3

Storage – holding data and information for future use



- Information processing cycle the cycle of input, process, output, and storage
- Hardware the electronic and mechanical equipment that makes up the computer



 Software – a series of instructions that tells the hardware how to perform tasks



Chapter 1: Integrating Educational Technology into the Curriculum

The Evolution of Computers and Digital Media

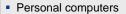
- The goal of multimedia computing and communications is to assist individuals in organizing and managing vast amounts of information in various types of media
- Digital media technologies that allow users to create new forms of interaction, expression, communication, and entertainment in a digital format
 - --Refer to graphic on next slide

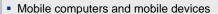
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The Evolution of Computers and Digital Media Continued | Politic | Politic

Categories of Computers







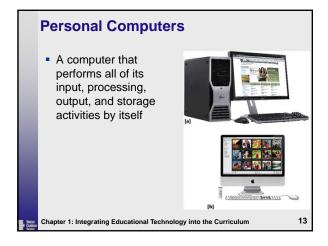
- Game consoles (like the wii)
- Servers, supercomputers, and embedded computers

--Details on each on next several slides

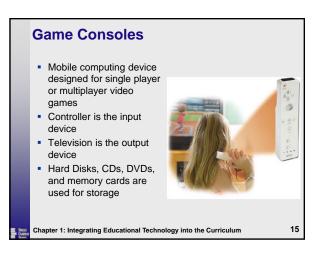
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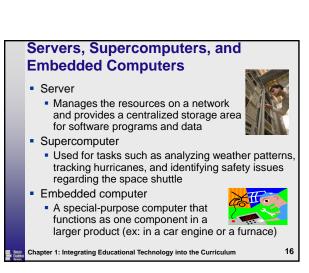


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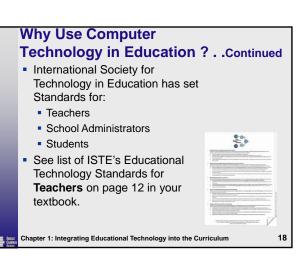


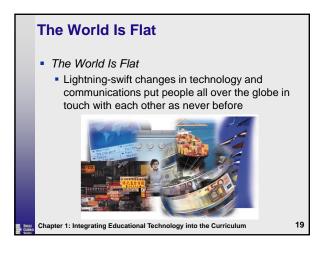




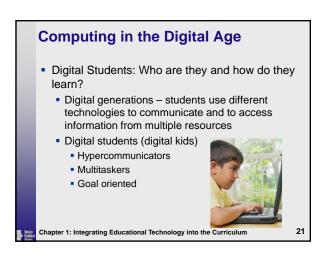


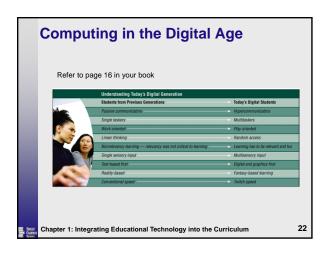


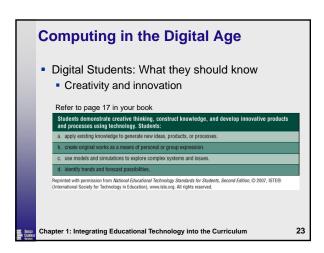




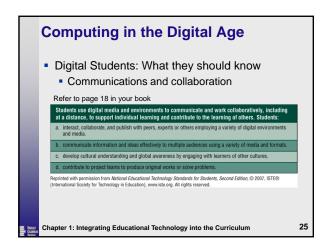


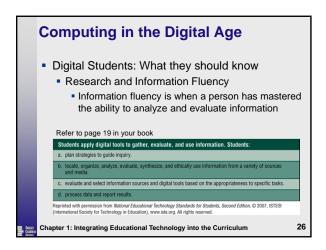


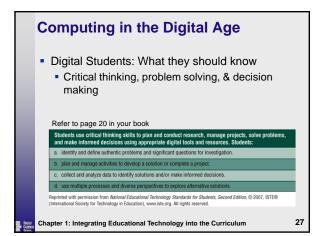


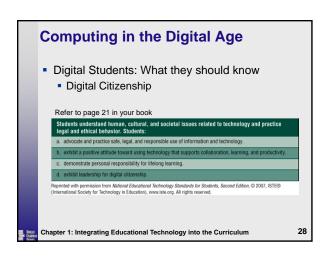


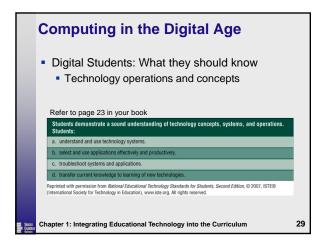


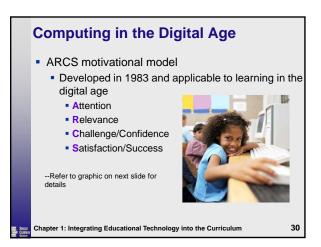


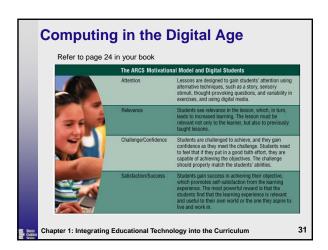


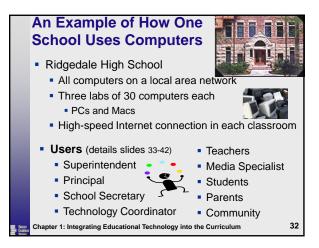




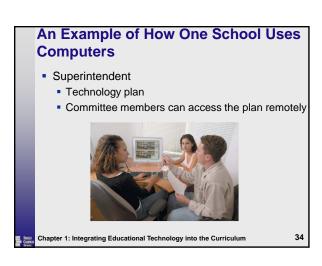


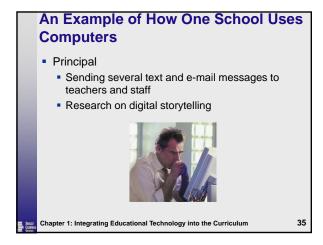


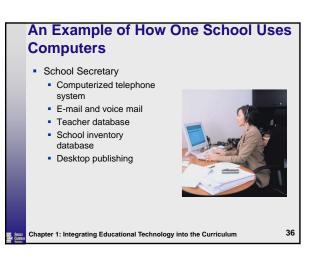


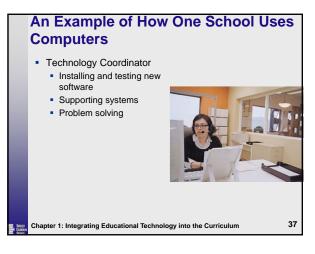




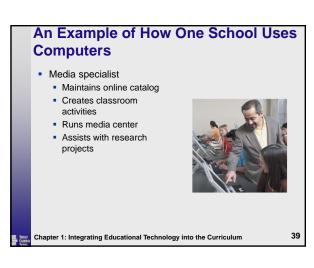


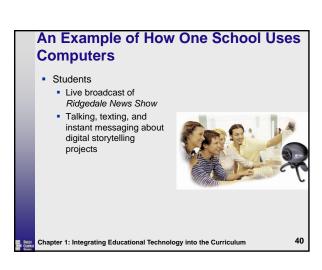


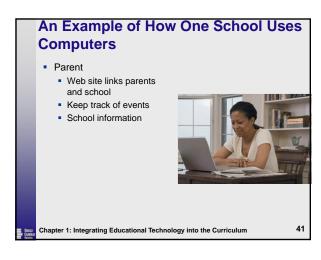


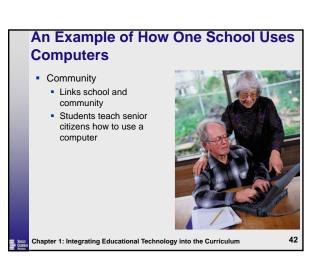












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Chapter 1 Complete

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