

ITcenter21: Introduction to Computers and IT Correlation to: *Pennsylvania: Academic Standards for Science & Technology*

Instructional Content Areas (Modules)

IT Introduction Unit
Computer Research
Multimedia Presentations
Telecommunications and Ethics
IT In Our Lives
Information Management and Evaluation
Desktop Publishing
IT History
Word Processing
Basic Computer Functions
Computer Graphics
IT Careers
Spreadsheets
Troubleshooting and Maintenance
Databases
Web Publishing
Resource Unit



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Overview

This document demonstrates the correlation between the ITcenter21: Introduction to Computers and IT curriculum supplied by Applied Educational Systems and the *Academic Standards for Science & Technology* published by the Pennsylvania Department of Education. The ITcenter21: Introduction to Computers and IT (IT21: Intro) units are listed across the top row. The checkmarks in the second column indicate that the standard is covered as part of the IT21: Intro course. The X's marked in the remaining columns show where the standard is covered in the IT21: Intro curriculum.

Source for standards listed on the following pages:

Pennsylvania Department of Education. *Academic Standards for Science & Technology*. 1/5/02. 11/4/03. <http://www.pde.state.pa.us/pde_internet/site/default.asp>.

Academic Standards for Science & Technology	ITcenter21 Course	IT Introduction Unit	Computer Research	Multimedia Presentations	Telecommun. & Ethics	IT In Our Lives	Info. Mgmt & Evaluation	Desktop Publishing	IT History	Word processing	Basic Comp. Func.	Computer Graphics	IT Careers	Spreadsheets	Troubleshooting	Databases	Web Publishing	Resource Unit
	Grade 4																	
C. Identify basic computer operations and concepts.																		
Identify the major parts necessary for a computer to input and output data.	✓										X							
Explain and demonstrate the basic use of input and output devices (e.g., keyboard, monitor, printer, mouse).	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Explain and demonstrate the use of external and internal storage devices (e.g., disk drive, CD drive).																		
D. Use basic computer software.																		
Apply operating system skills to perform basic computer tasks.	✓			X	X			X		X		X		X		X	X	
Apply basic word processing skills.	✓								X	X			X					
Identify and use simple graphic and presentation graphic materials generated by the computer.	✓											X						
Apply specific instructional software.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
E. Identify basic computer communications systems.																		
Apply a web browser.	✓		X			X	X		X				X					X
Apply basic electronic mail functions.	✓				X													
Use on-line searches to answer age appropriate questions.	✓		X			X	X		X				X					
Grade 7																		
C. Explain and demonstrate basic computer operations and concepts.																		
Know specialized computer applications used in the community.	✓					X												

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Describe the function of advanced input and output devices (e.g., scanners, video images, plotters, projectors) and demonstrate their use.	✓																	X
Demonstrate age appropriate keyboarding skills and techniques.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
D. Apply computer software to solve specific problems.																		
Identify software designed to meet specific needs (e.g., Computer Aided Drafting, design software, tutorial, financial, presentation software).	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Identify and solve basic software problems relevant to specific software applications.	✓													X				
Identify basic multimedia applications.	✓			X														
Demonstrate a basic knowledge of desktop publishing applications.	✓						X											
Apply intermediate skills in utilizing word processing, database and spreadsheet software.	✓							X	X			X	X			X		
Apply basic graphic manipulation techniques.	✓										X							
E. Explain basic computer communications systems.																		
Describe the organization and functions of the basic parts that make up the World Wide Web.	✓			X														
Apply advanced electronic mail functions.																		
Apply basic on-line research techniques to solve a specific problem.	✓		X			X												