

ITcenter21: Introduction to Computers and IT Correlation to: *Nevada Computer and Technology Education Standards.*

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



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Overview

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

Source for standards listed on the following pages:

<http://www.nde.state.nv.us/sca/standards/standar/dsfiles/comp>

Nevada Computers and Technology Education Standards for 8 th Grade	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
PROBLEM-SOLVING																	
1.8.1 Differentiate design/problem-solving methods and components of technology using accurate terminology.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.8.2 Select and evaluate appropriate designs requiring optimization and making trade-offs .	✓			X				X		X		X					X
1.8.3 Select and apply a design/problem-solving method to reach a desired outcome.	✓			X		X		X	X	X		X	X				X
PRODUCTIVITY TOOLS																	
2.8.1 Demonstrate proficiency and accuracy in keyboarding skills.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.8.2 Create a document using advanced formatting techniques that demonstrate the ability to import a graphic, type, edit, and print.	✓							X		X		X					
2.8.3 Create a database, define fields, enter data for multiple records, and print reports based on sort and query.	✓															X	
2.8.4 Generate a spreadsheet including labels, values, formulas, and functions; create a chart to visually represent data. Print a spreadsheet showing formulas.	✓													X			
2.8.5 Create a multi-page multimedia presentation using text, graphics, and sound to effectively communicate a concept.	✓			X													
2.8.6 Organize files on a computer disk, drive, server, or other storage device.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.8.7.1 Explain the advantages of connectivity with various systems to share information and resources.	✓				X	X				X							X
2.8.7.2 Employ the use of electronic communication.	✓				X												
RESEARCH TOOLS																	
3.8.1 Select a research topic or a statement of a problem identifying its elements, its scope, and the expected outcomes using technology tools.	✓		X														
3.8.2 Generate a list of keywords for a research topic or problem and conduct a search of electronic-based sources.	✓		X		X	X		X				X					
3.8.3 Select and evaluate information from a variety of remote resources for a research topic or problem exploring hyperlinks.	✓				X	X		X				X					

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3.8.4 Use an organizational format to arrange information for presentation or decision-making.	✓			X		X			X	X		X	X				X
3.8.5 Check collected information for reliability, authenticity, and timeliness, citing sources of copyrighted materials in papers, projects, and multi-media presentations.	✓		X			X	X		X				X				
3.8.6 Generate a bibliography.	✓		X	X		X			X				X				
TOOLS AND PROCESS																	
4.8.1 Explain how technology skills and tools enhance productivity in creating projects, building prototypes and modeling. (e.g., measuring, shaping, forming and fastening materials)																	
4.8.2 Use tools, instrumentation, equipment, materials, and processes to make designs, simulations, and prototypes .	✓			X				X		X		X		X		X	X
4.8.3 Compare and contrast the safe use of technology tools, hand and power tools, processes, and materials in diverse computer and technology applications.																	
4.8.4 Demonstrate an understanding of the operation and maintenance of technology tools such as hand tools, power tools, lasers, hydraulics, pneumatics, electronics, hardware, software, CNC machines, computers, robotics, and fiber optics.																	
SYSTEMS																	
5.8.1 Interpret resources that are essential and those that must be used effectively to produce a desired outcome, and output from one system may be input to another system.	✓			X							X	X					
5.8.2 Differentiate among various systems, explain capabilities and limitations, and identify the ways in which they are controlled to produce a desired outcome (e.g., limitations of the components of a computer system).	✓										X						
5.8.3 Use a system to achieve a desired outcome in the areas of construction, communication, manufacturing, energy, power, transportation, and biotechnology.	✓			X				X		X		X		X		X	X

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<p>IMPLICATIONS ON SOCIETY</p>																	
<p>6.8.1 Practice legal and ethical behaviors when using information and technology. Discuss the consequences of misuse on society and the environment.</p>	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<p>6.8.2 Evaluate the effect technology has on society and the environment.</p>	✓				X	X											
<p>6.8.3 Examine the role of technology in the workplace and explore careers that use technology.</p>	✓					X							X				
<p>6.8.4 Explain how people can control the technologies they develop and use, and why people are responsible for the effects these have on society, the environment and careers.</p>	✓				X	X			X								