

ITcenter21: Introduction to Computers and IT Correlation to: North Carolina - Computer/Technology Skills Curriculum (Grades 6-8)

Instructional Content Areas (Units)

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



APPLIED EDUCATIONAL SYSTEMS, Inc.

(800) 220-2175

www.aeseducation.com

Overview

This document demonstrates the correlation between the ITcenter21 curriculum supplied by Applied Educational Systems and the *North Carolina Computer/Technology Skills Curriculum for Grades 6-8*, published by the State Board of Education/Department of Public Instruction. 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.

STRANDS: SI = Societal Issues; KU/WP/DTP = Keyboard Utilization/Word Processing/Desk Top Publishing; DB = Database; SS = Spreadsheet; T = Telecommunications; M/P = Multimedia/Presentation

Source for standards listed on the following pages:

Computer/Technology Skills Curriculum
State Board of Education/Department of Public Instruction
http://www.ncpublicschools.org/curriculum/computer.skills/6_8.html

| North Carolina – Computer/Technology Skills Curriculum (Grade Level: 6) | 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 |
|---|-------------------|----------------------|-------------------|--------------------------|----------------------|-----------------|-------------------------|--------------------|------------|-----------------|-------------------|-------------------|------------|--------------|-----------------|-----------|----------------|
| Competency Goal 1: The learner will understand important issues of a technology-based society and will exhibit ethical behavior in the use of computer and other technologies. | | | | | | | | | | | | | | | | | |
| 1.1 Recognize ownership, security, and privacy issues. (SI) | ✓ | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 1.2 Demonstrate an understanding of copyright by citing sources of copyrighted materials in papers, projects, and multimedia presentations. (SI) | ✓ | | X | X | X | X | | | X | X | | | X | | | | |
| 1.3 Model ethical behavior relating to security, privacy, passwords, and personal information. (SI) | ✓ | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 1.4 Identify uses of technology in the workplace. (SI) | ✓ | | | | X | X | | X | | | | | X | X | | X | |
| Competency Goal 2: The learner will demonstrate knowledge and skills in the use of computer and other technologies. | | | | | | | | | | | | | | | | | |
| 2.1 Use keyboarding skills to increase productivity and accuracy. (KU/WP/DTP) | ✓ | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 2.2 Create/modify a database relevant to classroom assignments. (DB) | ✓ | | | | | | | | | | | | | | | X | |
| 2.3 Search and sort information using more than one criterion and explain strategies used to locate information. (DB) | ✓ | | X | | | X | | | X | X | | | X | | | | |
| 2.4 Enter and edit data into a prepared spreadsheet to test simple "what if" statements. (SS) | ✓ | | | | | | | | | | | | | X | | | |
| 2.5 Use order of operations in spreadsheet formulas. (SS) | ✓ | | | | | | | | | | | | | X | | | |
| Competency Goal 3: The learner will use a variety of technologies to access, analyze, interpret, synthesize, apply, and communicate information. | | | | | | | | | | | | | | | | | |
| 3.1 Select and use technology tools to collect, analyze, and display data. (SI) | ✓ | | X | | | | | | | | | X | | X | | | |
| 3.2 Use word processing/desktop publishing applications to create documents related to content areas. (KU/WP/DTP) | ✓ | | | | | | | X | | X | | | | | | | |

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|--|-------------------|----------------------|-------------------|--------------------------|----------------------|-----------------|-------------------------|--------------------|------------|-----------------|-------------------|-------------------|------------|--------------|-----------------|-----------|----------------|
| 3.3 Use information located in database files to create/modify a personal product. (DB) | ✓ | | | | | | | | | | | | | | | X | |
| 3.4 Create/modify and use spreadsheets to solve real-world problems. (SS) | ✓ | | | | | | | | | | | | X | | | | |
| 3.5 Select most appropriate type of graph to display data and state the reason. (SS) | ✓ | | | | | | | | | | | | X | | | | |
| 3.6 Create nonlinear multimedia projects related to content areas. (M/P) | ✓ | | | | | | | | | | | | | | | | X |
| 3.7 Evaluate electronic information from various sources as to validity, appropriateness, content, and usefulness. (T) | ✓ | | X | | | X | X | | X | | | | X | | | | |
| 3.8 Apply search strategies to locate and retrieve information via telecommunications. (T) | ✓ | | X | | | X | | | X | | | | X | | | | |
| 3.9 Use telecommunications to share and publish information. (T) | ✓ | | | | X | | | | | X | | | | | | | X |

| North Carolina – Computer/Technology Skills Curriculum (Grade Level: 7) | 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 |
|---|-------------------|----------------------|-------------------|--------------------------|----------------------|-----------------|-------------------------|--------------------|------------|-----------------|-------------------|-------------------|------------|--------------|-----------------|-----------|----------------|
| Competency Goal 1: The learner will understand important issues of a technology-based society and will exhibit ethical behavior in the use of computer and other technologies. | | | | | | | | | | | | | | | | | |
| 1.1 Demonstrate ethical behavior relating to security, privacy, passwords, and personal information. (SI) | ✓ | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 1.2 Demonstrate an understanding of copyright by citing sources of copyrighted materials in papers, projects, and multimedia presentations. (SI) | ✓ | | X | X | X | X | | | X | X | | | X | | | | |
| 1.3 Describe the impact of technology on the skills needed for the workplace.(SI) | ✓ | | | | | X | | | | | | | X | | | | |
| Competency Goal 2: The learner will demonstrate knowledge and skills in the use of computer and other technologies. | | | | | | | | | | | | | | | | | |
| 2.1 Enter and edit data into a prepared spreadsheet to test simple "what if" statements. (SS) | ✓ | | | | | | | | | | | | | X | | | |
| 2.2 Select appropriate spreadsheet functions to solve problems. (SS) | ✓ | | | | | | | | | | | | | X | | | |
| Competency Goal 3: The learner will use a variety of technologies to access, analyze, interpret, synthesize, apply, and communicate information. | | | | | | | | | | | | | | | | | |
| 3.1 Select and use technology tools to collect, analyze, and display data. (SI) | ✓ | | X | | | | | | | | | X | | X | | | |
| 3.2 Use word processing/desktop publishing for assignments/projects. (KU/WP/DTP) | ✓ | | | | | | X | | | X | | | | | | | |
| 3.3 Research, create, publish, and present projects related to content areas using a variety of technological tools. (KU/WP/DTP/DB/SS/MM/T) | ✓ | | X | X | X | X | | X | X | X | | X | X | X | | | X |
| 3.4 Search and sort information using more than one criterion and explain strategies used to find information. (DB) | ✓ | | X | | | X | | | X | X | | X | | | | | |
| 3.5 Create/modify and use a database relevant to a classroom assignment. (DB) | ✓ | | | | | | | | | | | | | | | X | |
| 3.6 Create/modify and use spreadsheets to solve problems related to content areas. (SS) | ✓ | | | | | | | | | | | | X | | | | |

| <p style="text-align: center;">North Carolina – Computer/Technology Skills Curriculum (Grade Level: 7)</p> | 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 |
|--|-------------------|----------------------|-------------------|--------------------------|----------------------|-----------------|-------------------------|--------------------|------------|-----------------|-------------------|-------------------|------------|--------------|-----------------|-----------|----------------|
| 3.7 Choose charts/tables or graphs to best represent data and state reason. (SS) | ✓ | | | | | | | | | | | | | X | | | |
| 3.8 Evaluate the information from electronic sources as to validity, appropriateness, content, and usefulness. (T) | ✓ | | X | | | X | X | | X | | | | X | | | | |

| <p align="center">North Carolina – Computer/Technology Skills Curriculum (Grade Level: 8)</p> | 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 |
|--|-------------------|----------------------|-------------------|--------------------------|----------------------|-----------------|-------------------------|--------------------|------------|-----------------|-------------------|-------------------|------------|--------------|-----------------|-----------|----------------|
| <p>Competency Goal 1: The learner will understand important issues of a technology-based society and will exhibit ethical behavior in the use of computer and other technologies.</p> | | | | | | | | | | | | | | | | | |
| <p>1.1 Model ethical behavior relating to security, privacy, passwords, and personal information. (SI)</p> | ✓ | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| <p>1.2 Demonstrate an understanding of copyright by citing sources of copyrighted materials in papers, projects, and multimedia presentations. (SI)</p> | ✓ | | X | X | X | | | | X | X | | | X | | | | |
| <p>1.3 Investigate occupations dependent on technology. (SI)</p> | ✓ | | | | | X | | | | | | | X | | | | |
| <p>Competency Goal 2: The learner will demonstrate knowledge and skills in the use of computer and other technologies.</p> | | | | | | | | | | | | | | | | | |
| <p>2.1 Create/modify and print a database report. (DB)</p> | ✓ | | | | | | | | | | | | | | | X | |
| <p>Competency Goal 3: The learner will use a variety of technologies to access, analyze, interpret, synthesize, apply, and communicate information.</p> | | | | | | | | | | | | | | | | | |
| <p>3.1 Select and use technology tools to collect, analyze, and display data. (SI)</p> | ✓ | | X | | | | | | | | | X | | X | | | |
| <p>3.2 Use word processing/desktop publishing for assignments/projects. (KU/WP/DTP).</p> | ✓ | | | | | | | X | | X | | | | | | | |
| <p>3.3 Research, create, publish, and present projects related to content areas using a variety of technological tools. (KU/WP/DTP/DB/SS/MM/T)</p> | ✓ | | X | X | X | X | | X | X | X | | X | X | X | | | X |
| <p>3.4 Create/modify and use databases relevant to classroom assignments. (DB)</p> | ✓ | | | | | | | | | | | | | | | X | |
| <p>3.5 Apply search and sort strategies used in a database. (DB)</p> | ✓ | | | | | | | | | | | | | | | X | |
| <p>3.6 Create/modify and use spreadsheets to solve problems related to content areas. (SS)</p> | ✓ | | | | | | | | | | | | | X | | | |
| <p>3.7 Explain the rationale for choosing charts/tables or graphs to best represent data. (SS)</p> | ✓ | | | | | | | | | | | X | | X | | | |

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|--|-------------------|----------------------|-------------------|--------------------------|----------------------|-----------------|-------------------------|--------------------|------------|-----------------|-------------------|-------------------|------------|--------------|-----------------|-----------|----------------|
| 3.8 Use spreadsheets to explore various formulas/functions and relationships. (SS) | ✓ | | | | | | | | | | | | | X | | | |
| 3.9 Conduct online research and evaluate the information found as to the validity, appropriateness, content, and usefulness. (T) | ✓ | | X | | | X | X | | X | | | | X | | | | |