

COMPUTERS AND TECHNOLOGY - GRADE 7

DIOCESAN STRAND A: LITERACY AND ETHICAL IMPLICATIONS

NC 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.

VALUES AND ATTITUDES Technology continually changes and advances
New equipment necessitates continual education

Students will be able to:

OBJECTIVES	STRATEGIES	ASSESSMENT	RESOURCES
<p>A.1 Understand that various devices can be added to a computer to do additional kinds of work</p> <p>A.2 Understand the function of a LAN</p> <p>A.3 Understand the difference between networked and standalone configuration</p> <p>A.4 Expand personal Code of Honor and Acceptable Use Policy (AUP)</p> <p>A.5 Understand licensing law for software (M)</p> <p>A.6 Demonstrate understanding of privacy and security for information</p> <p>A.7 Understand what constitutes plagiarism</p> <p>A.8 Expand search strategies</p> <p>A.9 Solve software problems</p> <p>A.10 Understand difference between input and output devices (M)</p> <p>A.11 Use peripheral devices</p> <p>A.12 Understand how technology has changed our society</p> <p>A.13 Understand and use vocabulary: HTML upload parallel port digital camera firewall serial port Ethernet token ring TV Interface site license lab license</p>	<p>Create a class web site and make regular changes and additions. Basic HTML tags are provided in the attachment section.</p> <p>Introduce students to the licensing agreements they accept when loading a piece of software.</p> <p>Share files on LAN if available</p> <p>Introduce students to presentation devices i.e. TV interface units, LCD panels or projectors</p> <p>Communicate with other Catholic educators www.ncea.org</p> <p>Discuss how technology is continually changing and how the changes effect our lives</p> <p>Discuss the place of technology in every day life</p>	<p>Demonstrate the ability to “upload” some form of information or function to add to the basic operations of a computer</p> <p>Use a variety of media to present reports, research papers, or book reports</p>	<p>Copyright issues: www.siec.k12.in.us</p> <p>Virtual university: www.vu.org</p> <p>Virtual library</p> <p>Purchasing peripherals: www.egghead.com</p>

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DIOCESAN STRAND B: COMMUNICATIONS

NC COMPETENCY, Goal 2: The learner will demonstrate knowledge and skills in the use of computer and other technologies

VALUES AND ATTITUDES

Appreciate the need to develop competence using technology
 Appreciate the role of technology in higher education and the job market
 Understand the need to master complex systems

Students will be able to:

OBJECTIVES	STRATEGIES	ASSESSMENT	RESOURCES
<p>B.1 Integrate research techniques, word processing and presentation techniques to produce a complete curriculum based project</p> <p>B.2 Find information online</p> <p>B.3 Enhance reports using electronic materials</p> <p>B.4 Use correct finger placement and type a minimum of 10 words per minute</p> <p>B.5 Incorporate copyrighted material in class work (M)</p> <p>B.6 Effectively communicate long distance using electronic methods (M)</p> <p>B.7 Understand and use vocabulary: plagiarism copyright</p>	<p>Assign research project that includes computer applications</p> <p>Correctly cite documentation for on-line and CD sources using MLA (www.mla.org)</p> <p>Provide practice with concepts of enhancing communication using input devices such as: thermometers, pH meters, visual scanners, digital cameras, digital video equipment and, scales and production equipment such as microphones</p>	<p>Present an increasing amount of work using technology</p> <p>Produce a complete curriculum based project</p> <p>Use e-mail, video conferencing and/or on-line courses</p>	<p>Presentation software: Power Point by Microsoft Freelance by Lotus HyperStudio HTML</p> <p>Past issues of periodicals on CDs</p> <p>CD encyclopedias</p>

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DIOCESAN STRAND C: DATA USE AND DISPLAY

NC COMPETENCY, Goal 3: The learner will use a variety of technologies to access, analyze, interpret, synthesize, apply, and communicate information.

VALUES AND ATTITUDES Understand how data can be organized and clearly displayed for understanding using a variety of tools

Students will be able to:

OBJECTIVES	STRATEGIES	ASSESSMENT	RESOURCES
<p>C.1 Develop skills to enter data into a spreadsheet</p> <p>C.2 Gather, organize and display information</p> <p>C.3 Interpret information from a chart, graph or table</p> <p>C.4 Use spreadsheet function to solve problems</p> <p>C.5 Use equations to manipulate data in a spreadsheet</p> <p>C.6 Use order of operations formula</p> <p>C.7 Create a graph, chart and table to display information</p> <p>C.8 Create a graph from a spreadsheet</p> <p>C.9 Locate information in a simple database</p> <p>C.10 Search and sort information using more than one criterion in a database</p> <p>C.11 Create a simple database related to regular academic work</p> <p>C.12 Understand and use vocabulary: query sort filter</p>	<p>Use any type of collected data to create a basic spreadsheet i.e. track amount of time each student in class uses a computer</p> <p>Use databases with writing workshop activities for tracking each step of the editing process</p> <p>Create a personal address book for e-mail addresses using a simple database</p>	<p>Create simple databases</p> <p>Create a spreadsheet</p> <p>Use data display tools in a curriculum project</p>	<p>Enhancing math and science: Probability Lab by Learning Company</p> <p>Geography and Social Studies: National Geographic Map series World GeoGraph II</p>

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DIOCESAN STRAND D: RESEARCH

NC COMPETENCY: This is not a separate goal in the NC Standard Course of Study

VALUES AND ATTITUDES Understand that not all information is reviewed, true or accurate
Realize that some sites are more credible than others

Students will be able to:

OBJECTIVES	STRATEGIES	ASSESSMENT	RESOURCES
<p>D.1 Gain the ability to choose among gathered information for appropriateness, content and credibility</p> <p>D.2 Understand and use primary sources from the Internet</p> <p>D.3 Recognize the basic characteristics of web sites</p> <p>D.4 Access information from the Internet</p> <p>D.5 Use a browser</p> <p>D.6 Use a search engine</p> <p>D.7 Understand how to consult more than one source to insure authentic information</p> <p>D.8 Correctly cite information obtained from Internet</p> <p>D.9 Identify questionable information gathered from the Internet</p> <p>D.10 Choose graphs or charts from electronic sources to include in reports and cite correctly</p> <p>D.11 Understand and use vocabulary: .com domain name .gov .net .org .edu</p>	<p>Access links in current reference books to go beyond paraphrasing information in the encyclopedia</p> <p>Research project on the Internet for: science, social studies, literature and religion</p> <p>Expose students to credible sites for information using a browser; search engine</p>	<p>Evaluate a variety of text and graphic information for accuracy, readability and suitability</p> <p>Correctly cite information obtained on the Internet in a paper or project</p>	<p>Sites which offer screened, correct and useful sites for student research: www.ped.stanford.edu www.kn.paebell.com/wired/bluewebn www.learnnc.org</p> <p>Search engines: www.metacrawler.com www.dogpile</p> <p>Information on copyright issues: www.sic.k12.in.us</p>