

SCSB Technology Curriculum: Grades Nine, Ten, Eleven, Twelve

Standard 1: Basic Operations and Concepts

The student will

- demonstrate a sound understanding of the nature and operation of technology systems.
- demonstrate proficiency in the use of technology.

Goal	Objective
1.1 Demonstrate an understanding of concepts underlying hardware, software, and connectivity, and of practical applications to learning and problem solving	1.1.1 connect and operate the computer technology needed to access information 1.1.2 read guides and manuals to connect and operate computer technology 1.1.3 operate various pieces of hardware and software 1.1.4 select and use appropriate software tools to produce a product 1.1.5 model proper equipment care and the safe use of tools, materials, and processes 1.1.6 design an individual career plan identifying technological skills required 1.1.7 demonstrate an understanding of current technology terminology (i.e., hard drive, RAM, videostreaming)
1.2 Apply strategies for identifying and solving routine hardware and software problems that occur during everyday use	1.2.1 use the “Help” menu to troubleshoot everyday problems
1.3 Use keyboards and other common input and output devices (i.e., including adaptive devices when necessary) efficiently and effectively	1.3.1 demonstrate correct keyboarding techniques (i.e., finger placement, posture, accuracy and speed) 1.3.2 complete computer operations (i.e., initialize a diskette, copy a file, organize documents into folders, move between different applications, access server)

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Standard 2: Social, Ethical and Human Issues

The student will

- understand the ethical, cultural, and societal issues related to technology.
- practice responsible use of technology systems, information and software.
- develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Goal	Objective
2.1. Identify capabilities and limitations of contemporary and emerging technology resources and assess the potential of these systems and services to address personal, lifelong learning, and workplace needs	2.1.1 demonstrate how technology can meet personal needs through the use of browsers, online public access library catalogs, and online services to complete an assigned task
2.2 Make informed choices among technology systems, resources, and services	2.2.1 locate and use appropriate technologies available in the school to complete an assigned task
2.3 Analyze advantages and disadvantages of widespread use and reliance on technology in the workplace and in society as a whole	2.3.1 evaluate the impact of technology in product and process, markets, organizations, structures, and people
2.4 Demonstrate and advocate for legal and ethical behaviors among peers, family, and community regarding the use of technology and information	2.4.1 analyze the legal, ethical, social, and economic factors that influence technology (i.e., comparison of public and private data) 2.4.2 apply legal principles and ethical conduct in the use of information technology related to copyright, plagiarism, and public and private data 2.4.3 model telecomputing etiquette when using email, newsgroups, list serves, and other Internet functions 2.4.4 model ethical behavior and acceptable practice in the use of technology and technological resources 2.4.5 demonstrate knowledge of dangerous practices on the Internet 2.4.6 review and understand district Acceptable Use Policy 2.4.7 practice proper “netiquette” behavior

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Standard 3: Technology Productivity Tools

The student will

- use technology tools to enhance learning, increase productivity, and promote creativity.
- use productivity tools to collaborate in constructing technology-enhanced models, preparing publications, and producing other creative works.

Goal	Objective
<p>3.1 Use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative products to promote an emphasis on higher order thinking skills and 21st century skills</p>	<p>3.1.1 produce and present multimedia presentations utilizing sound, graphics, charts, bulleted text, images, and multiple sources of information in non-linear formats</p> <p>3.1.2 develop a multimedia report for a selected content area utilizing digital video, digital graphics, sound and narration</p> <p>3.1.3 demonstrate correct keyboarding techniques including formatting, speed and accuracy, for a variety of purposes</p> <p>3.1.4 write a multi-page document incorporating advanced editing tools, multiple columns and graphics</p> <p>3.1.5 demonstrate the use of both spreadsheets and databases</p> <p>3.1.6 demonstrate the ability to select the best application to produce a needed result</p>
<p>3.2 Investigate expert systems, intelligent agents, and simulations in real-world situations</p>	<p>3.2.1 produce research on expert and simulation systems</p>

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Standard 4: Technology Communication Tools

The student will

- use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.
- use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Goal	Objective
4.1 Use technology tools and resources for managing and communicating personal/professional information (e.g., finances, schedules, addresses, purchases, correspondence)	4.1.1 use an online organizer to manage personal information (i.e., such as Assign Online, browser organizer, etc)
4.2 Routinely and efficiently use online information resources to meet needs for collaboration, research, publications, communications, and productivity	4.2.1 demonstrate proficiency in the area of Sarasota online research tools
4.3 Select and apply technology tools for research, information analysis, problem solving, and decision-making in content learning	4.3.1 demonstrate appropriate choices in the selection of online research tools 4.3.2 demonstrate proficiency in the selection of appropriate technology resources 4.3.3 demonstrate proficiency in the use of online resources for data gathering and problem solving
4.4 Collaborate with peers, experts, and others to contribute to a content-related knowledge base by using technology to compile, synthesize, produce, and disseminate information, models, and other creative works following appropriate laws and regulations in accordance with Child Internet Protection Act (CIPA) and Children’s Online Protection Act (COPA)	4.4.1 collaborate with two or more groups to complete a project using file exchange 4.4.2 share information and collaborate through data networks 4.4.3 share information through the Internet using teacher-monitored email

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Standard 5: Technology Research Tools

The student will

- use technology to locate, evaluate, and collect information from a variety of sources.
- use technology tools to process data and report results.
- evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.

Goal	Objective
5.1 Evaluate technology-based options, including distance and distributed education, for lifelong learning	5.1.1 use a variety of electronic methods to access resources and media (i.e., online research resources, teacher-monitored email, etc)
5.2 Routinely and efficiently use online information resources to meet needs for collaboration, research, publications, communications, and productivity	5.2.1 use the Internet to analyze, evaluate, and select relevant information
5.3 Select and apply technology tools for research, information analysis, problem solving, and decision-making in content learning	5.3.1 apply sophisticated search techniques (i.e., Boolean logic, wild cards) 5.3.2 create and communicate technological solutions to real-world problems using math and/or scientific concerns 5.3.3 demonstrate effective information literacy skills in use of online content using the district's Information Literacy continuum of skills at the appropriate grade level

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Standard 6: Technology Problem-Solving and Decision-Making Tools

The student will

- use technology to locate, evaluate, and collect information from a variety of sources.
- employ technology in the development of strategies for solving problems in the real world.

Goal	Objective
6.1 Routinely and efficiently use online information resources to meet needs for collaboration, research, publications, communications, and productivity	6.1.1 demonstrate proficiency in the use of Sarasota online research tools (i.e., Grolier, SIRS, Ebsco, Newsbank)
6.2 Collaborate with peers, experts, and others to contribute to a content-related knowledge base by using technology to compile, synthesize, produce, and disseminate information, models, and other creative works	6.2.1 collaborate with others to develop project-based learning products