

Somers Point School District

Curriculum

Technology

Grade 3

Board Approved: November 2008

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Somers Point School District

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Somers Point Schools

Mission and Beliefs

Mission

Empower each student to make responsible choices, meet challenges, achieve personal success, and to contribute to a global society as they apply the New Jersey Core Curriculum Standards to become autonomous, lifelong learners who are literate, problem solvers across all disciplines.

Beliefs

Beliefs: We believe that our empowered learners:

- Participate in educational programs that are designed to meet the needs of learners while providing challenging activities in the context of real life situations.
- Are aware of community issues and take part in activities to better their community.
- Acquire basic skills in obtaining information, thinking critically, solving problems and communicating effectively.
- Develop intellectual curiosity and the ability to access information as needed
- Become reflective learners that have an understanding of their own strengths and weaknesses.
- Develop the aptitudes and skills to adjust to a changing world and an unpredictable future.
- Are lifetime learners who value and accept learning as a continuing and dynamic process affecting all aspects of life.

PROGRAM PHILSOSOPHY, GOALS, AND BELIEFS

Philosophy

Technology is a tool to help students solve problems, create products, and build relationships. This tool can also facilitate the acquisition of grade level core curriculum standards and workplace readiness skills.

We believe that technology can:

- Improve student motivation, interest and attitude in learning.
- Prepare students for a global workplace.
- Address the needs of at-risk, low performing and special needs students.

Technology improves critical thinking and problem solving when:

- Students are taught to apply the process of problem solving and are then allowed opportunities to apply technology in development of solutions.
- Students work in collaborative groups while using computers to solve problems.
- Students use technology presentation and communication tools to present, publish, and share results of projects.

We ask ourselves the following questions as we build our technology curriculum and infrastructure:

- What information do teachers and students need to improve their work?
- What new relationships can improve learning?
- What authentic relationships can you imagine for students and educators?
- What technology do you want?

New Jersey State Department of Education Core Curriculum Content Standards

Technology, any modification of the natural world designed by human beings to solve human problems, enhance human life, or extend human capability, was identified by the United States Department of Labor as an essential workplace competency in a 1992 report called the Secretary's Commission on Achieving Necessary Skills (SCANS). SCANS stated that students should be able to select equipment and tools, apply technology to specific tasks, and maintain and troubleshoot equipment. The Department of Education recognized its importance by including technology in the original cross-content workplace readiness standards. In keeping with today's technological society, technological literacy has been further emphasized by its inclusion as a separate standards area which focuses on both computer and information literacy and technology education.

Standards, Strands and Cumulative Progress Indicators

The PDF version includes the entire published Core Curriculum Content Standards while the HTML version contains links to Standards' descriptive statements and lists of Strands and CPIs with linked resources.

PDF Version

[New Jersey Core Curriculum Content Standards for Technological Literacy](#)

3rd Grade Technology

Scope and Sequence

Quarter I	
I. Technology Vocabulary Build upon prior knowledge and expand technology vocabulary	I. Social and Ethical behaviors Demonstrate understanding of Acceptable Use policy and safety issues.
I. Operating Systems Utilize computer to log in, maneuver through various screens and manipulate programs.	
Quarter II	
I. Information research Research the internet for information.	I. Information access and research Recognize accuracy and/or bias of information.
Quarter III	
I. Operating Systems Using appropriate keyboarding techniques utilize a word processing and spreadsheet program.	I. Operating Systems Retrieve data and print to appropriate printer
Quarter IV	
I. Operating systems Create and present a multimedia presentation.	

Suggested blocks of Instruction	Grade Level/Subject: 3rd Grade Technology	Big Idea: A computer is an adaptable tool for organizing information and solving problems that facilitates lifelong learning.	
		Topic: Technology Vocabulary	
		Goal 1: The student will be able to properly name parts of the computer Goal 2: The student will be able to use proper vocabulary for on-screen items	
	Objectives / Cluster Concepts / Cumulative Progress Indicators (CPI's) The student will be able to:	Essential Questions / Enduring Understandings	Learning Activities including technology integration, interdisciplinary activities, and differentiation methods / Materials / Assessment
1	8.1.4 A1 Use basic technology vocabulary.	Essential Questions: <ul style="list-style-type: none"> In a world of constant technological change, what skills should we learn? How do I choose which technological tools to use and when it is appropriate to use them? How can I transfer what I know to new technological situations/experiences? What are my responsibilities for using technology? What constitutes misuse and how can it best be prevented? Enduring Understandings: <ul style="list-style-type: none"> Technology is constantly changing and requires continuous learning of new skills. Selection of technology should be based on personal and/or career needs assessment. A tool is only as good as the person using it. Technology use can have positive or negative impact on both users and those affected by their use. 	Learning Activities <ul style="list-style-type: none"> Have students label parts of the computer (whiteboard/worksheets) Materials: Computers Whiteboard Worksheets Assessment: Completion of worksheet/accurate labeling on whiteboard Teacher observation. 4 th grade assessment

Suggested blocks of Instruction	Grade Level/Subject: 3rd Grade/Technology	Big Idea: A computer is an adaptable tool for organizing information and solving problems that facilitates lifelong learning.	
		Topic: Social and Ethical Behaviors	
		Goal 3: The student will be able to demonstrate understanding of Acceptable Use Policy Goal 4: The student will be able to understand guidelines regarding Netiquette	
	Objectives / Cluster Concepts / Cumulative Progress Indicators (CPI's) The student will be able to:	Essential Questions / Enduring Understandings	Learning Activities including technology integration, interdisciplinary activities, and differentiation methods / Materials / Assessment
1	8.1.4 B.2 & B.3 Recognize and practice responsible social and ethical behaviors when using technology, and understand the consequences of inappropriate use including: <ul style="list-style-type: none"> ○ Internet access ○ Copyright materials ○ On-line library resources ○ Personal security and safety issues. Practice appropriate Internet etiquette.	Essential Questions: <ul style="list-style-type: none"> • In a world of constant technological change, what skills should we learn? • How do I choose which technological tools to use and when it is appropriate to use them? • How can I transfer what I know to new technological situations/experiences? • What are my responsibilities for using technology? What constitutes misuse and how can it best be prevented? Enduring Understandings: <ul style="list-style-type: none"> • Technology is constantly changing and requires continuous learning of new skills. • Selection of technology should be based on personal and/or career needs assessment. • A tool is only as good as the person using it. • Technology use can have positive or negative impact on both users and those affected by their use. 	Learning Activities 1 Visit various age appropriate websites. Discuss appropriate use and consequences of inappropriate use. Materials: Age appropriate websites Computers Assessment: Teacher observation 4 th Grade assessment

Suggested blocks of Instruction	Grade Level/Subject: 3rd Grade/Technology	Big Idea: A computer is an adaptable tool for organizing information and solving problems that facilitates lifelong learning.	
		Topic: Operating systems	
		Goal 5: The student will be able to utilize a computer by logging in, navigating screens and logging off. Goal 6: The student will be able to demonstrate appropriate use and care of computer hardware.	
	Objectives / Cluster Concepts / Cumulative Progress Indicators (CPI's) The student will be able to:	Essential Questions / Enduring Understandings	Learning Activities including technology integration, interdisciplinary activities, and differentiation methods / Materials / Assessment
3	8.1.4 A.2, Use basic features of an operating system (e.g., accessing programs, identifying and selecting a printer, finding help).	Essential Questions: <ul style="list-style-type: none"> • In a world of constant technological change, what skills should we learn? • How do I choose which technological tools to use and when it is appropriate to use them? • How can I transfer what I know to new technological situations/experiences? • What are my responsibilities for using technology? What constitutes misuse and how can it best be prevented? Enduring Understandings: <ul style="list-style-type: none"> • Technology is constantly changing and requires continuous learning of new skills. • Selection of technology should be based on personal and/or career needs assessment. • A tool is only as good as the person using it. • Technology use can have positive or negative impact on both users and those affected by their use. 	Learning Activities <ul style="list-style-type: none"> • Model for students how to log in, navigate to a predetermined location and log off. Have students practice. Materials: Computers Assessment: Teacher observation 4th Grade assessment

Suggested blocks of Instruction	Grade Level/Subject: 3rd Grade/Technology	Big Idea: A computer is an adaptable tool for organizing information and solving problems that facilitates lifelong learning.	
		Topic: Information Research	
		Goal 7: The student will be able to research the internet for information. Goal 8: The student will be able to identify reliable sources of information.	
	Objectives / Cluster Concepts / Cumulative Progress Indicators (CPI's) The student will be able to:	Essential Questions / Enduring Understandings	Learning Activities including technology integration, interdisciplinary activities, and differentiation methods / Materials / Assessment
3	8.1.4 B.5, B.6, B.7 Recognize the need for accessing and using information. Identify and use web browsers, search engines, and directories to obtain information to solve real world problems. Locate specific information by searching a database.	Essential Questions: <ul style="list-style-type: none"> In a world of constant technological change, what skills should we learn? How do I choose which technological tools to use and when it is appropriate to use them? How can I transfer what I know to new technological situations/experiences? What are my responsibilities for using technology? What constitutes misuse and how can it best be prevented? Enduring Understandings: <ul style="list-style-type: none"> Technology is constantly changing and requires continuous learning of new skills. Selection of technology should be based on personal and/or career needs assessment. A tool is only as good as the person using it. Technology use can have positive or negative impact on both users and those affected by their use. 	Learning Activities <ul style="list-style-type: none"> Teacher will explain what to look for when evaluating a website for reliability. Students will examine various age appropriate websites for authenticity and reliability. Students will research various subjects on the internet. Materials: Computers Age appropriate websites Assessment: Teacher observation 4 th Grade assessment

Suggested blocks of Instruction	Grade Level/Subject: 3rd Grade/Technology	Big Idea: A computer is an adaptable tool for organizing information and solving problems that facilitates lifelong learning.	
		Topic: Information Access and Research	
		Goal 9: The student will be able to recognize accuracy and/or bias of information. Goal 10: The student will be able to use a word processing program to compare and contrast website information.	
	Objectives / Cluster Concepts / Cumulative Progress Indicators (CPI's) The student will be able to:	Essential Questions / Enduring Understandings	Learning Activities including technology integration, interdisciplinary activities, and differentiation methods / Materials / Assessment
3	8.1.4 A.1, A.2, A.3, A.4, B.8 Use basic technology vocabulary Use basic features of an operating system Input and access text and data, using appropriate keyboarding techniques Produce a simple finished document using word processing software Recognize accuracy and/or bias of information.	Essential Questions: <ul style="list-style-type: none"> In a world of constant technological change, what skills should we learn? How do I choose which technological tools to use and when it is appropriate to use them? How can I transfer what I know to new technological situations/experiences? What are my responsibilities for using technology? What constitutes misuse and how can it best be prevented? Enduring Understandings: <ul style="list-style-type: none"> Technology is constantly changing and requires continuous learning of new skills. Selection of technology should be based on personal and/or career needs assessment. A tool is only as good as the person using it. Technology use can have positive or negative impact on both users and those affected by their use. 	Learning Activities <ul style="list-style-type: none"> Students will research a topic using several websites. They will use a word processing document to note the differences/similarities (accuracy and/or bias) of information given and present their findings to the class. Materials: Computers Age-appropriate websites Topics Assessment: Rubric of word processing document Teacher Observation 4 th Grade assessment

Suggested blocks of Instruction	Grade Level/Subject: 3rd Grade/Technology	Big Idea: A computer is an adaptable tool for organizing information and solving problems that facilitates lifelong learning.	
		Topic: Operating systems	
		Goal 11: The student will be able to use proper keyboarding techniques to utilize a spreadsheet program.	
	Objectives / Cluster Concepts / Cumulative Progress Indicators (CPI's) The student will be able to:	Essential Questions / Enduring Understandings	Learning Activities including technology integration, interdisciplinary activities, and differentiation methods / Materials / Assessment
3	8.1.4 A.5, A.7, A.9 Produce and interpret a simple graph or chart by entering and editing data on a prepared spreadsheet template. Create and maintain fields and folders. Use basic computer icons.	Essential Questions: <ul style="list-style-type: none"> In a world of constant technological change, what skills should we learn? How do I choose which technological tools to use and when it is appropriate to use them? How can I transfer what I know to new technological situations/experiences? What are my responsibilities for using technology? What constitutes misuse and how can it best be prevented? Enduring Understandings: <ul style="list-style-type: none"> Technology is constantly changing and requires continuous learning of new skills. Selection of technology should be based on personal and/or career needs assessment. A tool is only as good as the person using it. Technology use can have positive or negative impact on both users and those affected by their use. 	Learning Activities <ul style="list-style-type: none"> Teacher will model a spreadsheet template. Students will create a folder, collect data, enter into template, create a simple graph, save to their folder/file. Materials: Computers Manipulatives Paper Assessment: Spreadsheet saved to folder Teacher Observation 4 th Grade assessment

Suggested blocks of Instruction	Grade Level/Subject: 3rd Grade/Technology	Big Idea: A computer is an adaptable tool for organizing information and solving problems that facilitates lifelong learning.	
		Topic: Operating Systems	
		Goal 12: The student will be able to identify the basic features of an operating system.	
	Objectives / Cluster Concepts / Cumulative Progress Indicators (CPI's) The student will be able to:	Essential Questions / Enduring Understandings	Learning Activities including technology integration, interdisciplinary activities, and differentiation methods / Materials / Assessment
2	8.1.4 A.2, A.8 Use basic features of an operating system i.e. selecting a printer Use a graphic organizer	<p>Essential Questions:</p> <ul style="list-style-type: none"> • In a world of constant technological change, what skills should we learn? • How do I choose which technological tools to use and when it is appropriate to use them? • How can I transfer what I know to new technological situations/experiences? • What are my responsibilities for using technology? What constitutes misuse and how can it best be prevented? <p>Enduring Understandings:</p> <ul style="list-style-type: none"> • Technology is constantly changing and requires continuous learning of new skills. • Selection of technology should be based on personal and/or career needs assessment. • A tool is only as good as the person using it. • Technology use can have positive or negative impact on both users and those affected by their use. 	<p>Learning Activities</p> <ul style="list-style-type: none"> • Students will access spreadsheet program and retrieve work. Using a graphic organizer they will detail the steps involved in creating their spreadsheet. Students will print both the spreadsheet and graphic organizer. <p>Materials: Computers Graphic organizer templates paper</p> <p>Assessment: Print out of graphic organizer and spreadsheet Teacher Observation 4th Grade assessment</p>

Suggested blocks of Instruction	Grade Level/Subject: 3rd Grade/Technology	Big Idea: A computer is an adaptable tool for organizing information and solving problems that facilitates lifelong learning.	
		Topic: Operating Systems	
		Goal 13: The student will be able to utilize information learned during the year to research a topic on the internet, gather information and present it to the class.	
	Objectives / Cluster Concepts / Cumulative Progress Indicators (CPI's) The student will be able to:	Essential Questions / Enduring Understandings	Learning Activities including technology integration, interdisciplinary activities, and differentiation methods / Materials / Assessment
6	8.1.4 A.6 Create and present a multimedia presentation.	Essential Questions: <ul style="list-style-type: none"> In a world of constant technological change, what skills should we learn? How do I choose which technological tools to use and when it is appropriate to use them? How can I transfer what I know to new technological situations/experiences? What are my responsibilities for using technology? What constitutes misuse and how can it best be prevented? Enduring Understandings: <ul style="list-style-type: none"> Technology is constantly changing and requires continuous learning of new skills. Selection of technology should be based on personal and/or career needs assessment. A tool is only as good as the person using it. Technology use can have positive or negative impact on both users and those affected by their use. 	Learning Activities <ul style="list-style-type: none"> Students will have various topics. Graphic organizers will be utilized to dictate what needs to be accomplished. Students will research the internet, being aware of Netiquette rules, copyright policy, authorship and plagiarism. Students will collect information and take notes using a word processing program and spreadsheet program. Students will prepare a multimedia presentation to present to class. Materials: Computers Topics Websites Assessment: Multimedia presentation Teacher observation 4 th Grade assessment

3rd Grade Technology

COURSE BENCHMARKS

The student will be able to ...

Quarter I
<ul style="list-style-type: none">• Build upon prior knowledge and expand technology vocabulary• Demonstrate understanding of the Acceptable Use policy• Utilize computer to log in, maneuver through various screens and manipulate programs.
Quarter II
<ul style="list-style-type: none">• Research the internet for information• Recognize the accuracy and/or bias of information within websites
Quarter III
<ul style="list-style-type: none">• Use appropriate keyboarding techniques while utilizing a word processing and spreadsheet program.• Retrieve data for a folder they have created and print to appropriate printer
Quarter IV
<ul style="list-style-type: none">• Use knowledge learned during the year to create a comprehensive multimedia project.