

**Farmingdale Public Schools**

**Instructional Technology  
Standards – Primary (Grades K – 2)**

<b>Standard 1: Basic operations and concepts</b>		
<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
<p>1.1 Demonstrates a sound understanding of the nature and operations of technology systems.</p> <p>1.2 Proficient in the use of technology.</p>	<p>1.1 Identify the computer for working and playing.</p> <p>1.2 Following directions in the use of various software programs. Adept at using a mouse, the keyboard, the monitor and printer.</p>	<p>1.1 Each student will be a computer monitor (on a rotating basis). He/she will be responsible for turning computers on/off.</p> <p>1.2 Student must know how to login and go to instructed program; using mouse and keyboard.</p>
<b>Standard 2: Social, Ethical and Human Issues</b>		
<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
<p>2.1 Understands the ethical, cultural and societal issues related to technology</p> <p>2.2 Practices responsible use of technology to systems, information and software</p> <p>2.3 Develops positive attitudes towards technology uses that support lifelong learning, collaboration, personal pursuit and productivity.</p>	<p>2.1 Learns about other cultures through telecommunications such as e-mail and keypals.</p> <p>2.2 Demonstrates proper care and responsible use of technology systems, information and software.</p> <p>2.3 Cooperates with peers in sharing available computers.</p>	<p>2.1 Student will use appropriate language when communicating with keypals.</p> <p>2.2 Students will follow class guidelines for the care and handling of the computers and software.</p> <p>2.3 The student will learn to work cooperatively with their peers while sharing time and materials to complete required tasks. The student will understand that people all over the world can communicate quickly and easily through the use of the Internet.</p>

**Standard 3: Technology Productivity Tools**

Target Indicators	Student Expectations	Technology Applications
<p>3.1 Uses technology tools to enhance learning, increase productivity and promote creativity.</p> <p>3.2 Uses productivity tools to collaborate in constructing technology – enhance models, prepares publications and produces other creative works.</p>	<p>3.1 Use author pages to discover authors, read their stories and download activity pages.</p> <p>3.2 Can use presentation and authoring software as a class in order to create a multimedia presentation in third grade.</p>	<p>3.1 The student will be able to use a teacher created HyperStudio or PowerPoint presentation to gain knowledge on various topics.</p> <p>3.2 The student while using these presentations will be able to download and print information as directed by the teacher.</p>

**Farmingdale Public Schools  
Instructional Technology – Primary (GRADES K – 2)**

**Standard 4: Technology Communication Tools**

Target Indicators	Student Expectations	Technology Applications
<p>4.1 Uses telecommunications to collaborate, publish and interact with peers, experts and other audiences.</p> <p>4.2 Uses a variety of media in formats to communicate information and ideas effectively to multiple audiences.</p>	<p>4.1 Uses e-mail to communicate with experts, authors, peers from other schools and geographical areas.</p> <p>4.2 Utilize simple word processor and graphic techniques for writing and illustrating stories and reports.</p>	<p>4.1 The student will be able to contribute ideas via e-mail to experts, authors, peers and other schools in different geographical areas.</p> <p>4.2 The student will be able to choose and change font size and style of print. The student will be able to use appropriately tab, shift, enter, and delete keys. The student will be able to import simple clip art. The student will be able to create illustrations using “kid friendly” software.</p>

**Standard 5: Technology Research Tools**

Target Indicators	Student Expectations	Technology Applications
<p>5.1 Uses Technology to locate, evaluate and collect information from a variety of sources.</p> <p>5.2 Uses technology tools to process data and report results.</p> <p>5.3 Evaluates and selects new information resources and technological innovations based upon the appropriateness to specific tasks.</p>	<p>5.1 Uses CD-ROM's, Internet Web sites and software to locate data for specific topics.</p> <p>5.2 Can do a keyboard search using an appropriate elementary search engine.</p> <p>5.3 Understands that not all information gathered is useful or appropriate.</p>	<p>5.1 The student will learn to handle care and load CD-ROM software. The student will be able to locate a topic using a CD-ROM encyclopedia.</p> <p>5.2 The student will be able to identify, use and understand the functions of on screen buttons and icons.</p> <p>5.3 The student will know how to identify and highlight a section of research that applies to his/her topic. The student will be able to conduct a guided keyboard search using CD/ROMs and child appropriate search engines so that he/she will learn proper etiquette.</p>

**Farmingdale Public Schools  
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**Standard 6: Technology Problem Solving and Decision Making Tools**

Target Indicators	Student Expectations	Technology Applications
<p>6.1 Uses technology resources for problem solving and making informed decisions.</p> <p>6.2 Employs technology in the development of strategies for problems in the real world.</p>	<p>6.1 Uses appropriate problem solving software to solve problems and make informed decisions.</p> <p>6.2 Uses technology resources such as puzzles, logical thinking programs and writing and drawing tools for problem solving, communication and illustrations of thoughts and ideas.</p>	<p>6.1 The student will be able to use age appropriate software to solve problems and make informed decisions.</p> <p>6.2 The student will be able to use age appropriate technology resources such as puzzles, logical thinking programs and writing tools for problem solving and communicating ideas to teachers, classmates and/or keypals.</p> <p>6.3 The student will be able to use age appropriate drawing programs for problem solving and communicating ideas to teachers, classmates and/or keypals.</p>

**Farmingdale Public Schools**  
**Instructional Technology**  
**Standards – INTERMEDIATE**  
**GRADE 3**

**Standard 1: Basic operations and concepts**

Target Indicators	Student Expectations	Technology Applications
<p>1.2 Demonstrates a sound understanding of the nature and operations of technology systems.</p> <p>1.2 Proficient in the use of technology.</p>	<p>1.2 Log in/log out.            Purpose and definition of mouse, keyboarding, defining and discerning between word processing, graphics and desktop publishing.            Has a command of computer terms and internet extensions.</p> <p>1.2 Load paper.            Load CD-ROM.            Turn on printer.            Keyboarding skills.            Access internet and download internet information.            Use of search engines.</p>	<p>1.1 Use the computer as a tool to create a written piece to include graphics.            Create an electronic presentation related to a specific topic.</p> <p>1.2 Locate appropriate research information from internet sites for reports.            Download internet information and print.</p>

**Standard 2: Social, Ethical and Human Issues**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
2.1 Understands the ethical, cultural and societal issues related to technology	2.1 Ability to discern between accurate information and inappropriate information.	2.1 Create a display (mobile) comparing early communication tools with the computer.
2.2 Practices responsible use of technology to systems, information and software	2.2 Plagiarism, using appropriate information.	2.2 Select information from the internet that is Appropriate to a specific topic.
2.3 Develops positive attitudes towards technology uses that support lifelong learning, collaboration, personal pursuit and productivity.	2.3 Building on skills previously learned.	2.3 Creative Writing: “What will the world of computers be like twenty years from now?”

**Farmingdale Public Schools****Instructional Technology Standards – Intermediate GRADE 3****Standard 3: Technology Productivity Tools**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
3.1 Uses technology tools to enhance learning, increase productivity and promote creativity.	3.1 Use of icons in the menu bar to create published works and interdisciplinary projects.	3.1 Create a published piece of writing on a specific topic.
3.2 Uses productivity tools to collaborate in constructing technology – enhance models, prepares publications and produces other creative works.	3.2 Use of technology tools such as digital cameras, scanners, multimedia authoring, presentation.	3.2 Use scanned images in a report. Create a poster or creative display using digital images taken with a digital camera to include scanned images.

## Standard 4: Technology Communication Tools

Target Indicators	Student Expectations	Technology Applications
4.1 Uses telecommunications to collaborate, publish and interact with peers, experts and other audiences.  4.2 Uses a variety of media in formats to communicate information and ideas effectively to multiple audiences.	4.1 Use telecommunication and online resources (eg., e-mail, online chats, web sites) to participate in collaborative problem-solving activities for the purpose of developing solutions or products for audiences inside and outside of the classroom.  4.2 Use of multimedia software programs such as HyperStudio and PowerPoint to create individual and collaborative publications.	4.1 Participate in online chats with authors, scientists, other classes, key-pals, local government officials, e-mail.  4.2 Collaborate with other students to create a HyperStudio or PowerPoint presentation on a specific topic.

**Farmingdale Public Schools**  
**Instruction Technology Standards – Intermediate GRADE 3**

**Standard 5: Technology Research Tools**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
<p>5.1 Uses technology to locate, evaluate and collect information from a variety of sources.</p> <p>5.2 Uses technology tools to process data and report results.</p> <p>5.3 Evaluates and selects new information resources and technological innovations based upon the appropriateness to specific tasks.</p>	<p>5.1 Uses technology resources such as calculators, OPACs, videos, laser discs, CD-ROMs for problem-solving, self-directed learning and extended learning activities.</p> <p>5.2 Ability to use technology tools to gather data and present information.</p> <p>5.3 Can discriminate, select, and evaluate a variety of technology tools appropriate for the task at hand.</p>	<p>5.1 Use OPAC to locate information using a variety of sources – laser disc, video, CD-ROM.</p> <p>5.2 Independent study – Oral presentation from information gathered via technology.</p> <p>5.3 Use an appropriate search engine to preview sites for specific research topic. List appropriate sites.</p>

## **Standard 6: Technology Problem Solving and Decision Making Tools**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
6.1 Uses technology resources for problem solving and making informed decisions.	6.1 Ability to use and evaluate a variety of technology resources such as the Internet for problem solving and decision making.	6.1 Use simulated CD-ROM programs to practice problem solving techniques.
6.2 Employs technology in the development of strategies for problems in the real world.	6.2 Evaluates the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.	6.2 Brainstorm an environmental problem related to communities studied. Find solutions that could help this situation.

**Farmingdale Public Schools**  
**Instructional Technology**  
**Standards – INTERMEDIATE**  
**GRADE 4**

**Standard 1: Basic operations and concepts**

Target Indicators	Student Expectations	Technology Applications
1.3 Demonstrates a sound understanding of the nature and operations of technology systems.	1.3 Log in/log out. Purpose and definition of mouse, keyboarding, defining and discerning between word processing, graphics and desktop publishing. Has a command of computer terms and internet extensions.	1.3 Use the computer as a tool to create a written piece to include graphics. Design a new book cover for a novel. Create an electronic presentation related to a research topic.
1.2 Proficient in the use of technology.	1.2 Load paper. Load CD-ROM. Turn on printer. Keyboarding skills. Access internet and download internet information. Use of search engines.	1.4 Locate appropriate research information from internet sites for reports. Download internet information and print.

**Standard 2: Social, Ethical and Human Issues**

Target Indicators	Student Expectations	Technology Applications
2.1 Understands the ethical, cultural and societal issues related to technology	2.1 Ability to discern between accurate information and inappropriate information.	2.1 Create a display (chart/table) comparing early communication tools with the computer.
2.2 Practices responsible use of technology to systems, information and software	2.2 Plagiarism, using appropriate information.	2.4 Select information from the internet that is appropriate to a specific topic.
2.3 Develops positive attitudes towards technology uses that support lifelong learning, collaboration, personal pursuit and productivity.	2.3 Building on skills previously learned.	2.5 Creative Writing: “How will computers help with the quality of our lives on Long Island in the future?”

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**Instructional Technology Standards – Intermediate GRADE 4**

**Standard 3: Technology Productivity Tools**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
3.1 Uses technology tools to enhance learning, increase productivity and promote creativity.	3.1 Use of icons in the menu bar to create published works and interdisciplinary projects.	3.1 Create a published piece of writing on a specific topic.
3.2 Uses productivity tools to collaborate in constructing technology – enhance models, prepares publications and produces other creative works.	3.2 Use of technology tools such as digital cameras, scanners, multimedia authoring, presentation.	3.2 Use scanned images in a report. Create a poster or creative display using digital images taken with a digital camera to include scanned images.

**Standard 4: Technology Communication Tools**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
4.1 Uses telecommunications to collaborate, publish and interact with peers, experts and other audiences.	4.1 Use telecommunication and online resources (eg., e-mail, online chats, web sites) to participate in collaborative problem-solving activities for the purpose of developing solutions or products for audiences inside and outside of the classroom.	4.1 Participate in online chats with authors, scientists, other classes, key-pals, local government officials, e-mail.
4.2 Uses a variety of media in formats to communicate information and ideas effectively to multiple audiences.	4.2 Use of multimedia software programs such as HyperStudio and PowerPoint to create individual and collaborative publications.	4.2 Collaborate with other students to create a HyperStudio or PowerPoint presentation on a specific topic.

**Farmingdale Public Schools**  
**Instruction Technology Standards – Intermediate GRADE 4**

**Standard 5: Technology Research Tools**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
<p>5.1 Uses technology to locate, evaluate and collect information from a variety of sources.</p> <p>5.2 Uses technology tools to process data and report results.</p> <p>5.3 Evaluates and selects new information resources and technological innovations based upon the appropriateness to specific tasks.</p>	<p>5.1 Uses technology resources such as calculators, OPACs, videos, laser discs, CD-ROMs for problem-solving, self-directed learning and extended learning activities.</p> <p>5.2 Ability to use technology tools to gather data and present information.</p> <p>5.3 Can discriminate, select, and evaluate a variety of technology tools appropriate for the task at hand.</p>	<p>5.1 Use OPAC to locate information using a variety of sources – laser disc, video, CD-ROM.</p> <p>5.2 Independent study – Oral presentation from information gathered via technology.</p> <p>5.3 Use an appropriate search engine to preview sites for specific research topic. List appropriate sites.</p>

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

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
<p>6.3 Uses technology resources for problem solving and making informed decisions.</p> <p>6.4 Employs technology in the development of strategies for problems in the real world.</p>	<p>6.1 Ability to use and evaluate a variety of technology resources such as the Internet for problem solving and decision making.</p> <p>6.2 Evaluates the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.</p>	<p>6.1 Use simulated CD-ROM programs to practice problem solving techniques. Solve problems on simulations.</p> <p>6.2 Brainstorm an environmental problem. Find solutions that could help this situation.  Local information on a local issue (Long Island.)  How can technology be used to help?</p>

Farmingdale Public Schools

**Instructional Technology Standards  
INTERMEDIATE GRADE 5**

**Standard 1: Basic operations and concepts**

Target Indicators	Student Expectations	Technology Applications
<p>1.4 Demonstrates a sound understanding of the nature and operations of technology systems.</p> <p>1.2 Proficient in the use of technology.</p>	<p>1.4 Log in/log out. Purpose and definition of mouse, keyboarding, defining and discerning between word processing, graphics and desktop publishing. Has a command of computer terms and internet extensions.</p> <p>1.2 Load paper. Load CD-ROM. Turn on printer. Keyboarding skills. Access internet and download internet information. Use of search engines.</p>	<p>1.5 Use the computer as a tool to create a written piece to include graphics. Design a structure using a drawing program to depict an American historic event. Create an electronic presentation related to a research topic.</p> <p>1.6 Locate appropriate research information from internet sites for reports. Download internet information and print.</p>

**Standard 2: Social, Ethical and Human Issues**

Target Indicators	Student Expectations	Technology Applications
<p>2.1 Understands the ethical, cultural and societal issues related to technology</p> <p>2.2 Practices responsible use of technology to systems, information and software</p> <p>2.3 Develops positive attitudes towards technology uses that support lifelong learning, collaboration, personal pursuit and productivity.</p>	<p>2.1 Ability to discern between accurate information and inappropriate information.</p> <p>2.2 Plagiarism, using appropriate information.</p> <p>2.3 Building on skills previously learned.</p>	<p>2.1 Create a display (graphic organizer) comparing early communication tools with the computer. Utilize appropriate search engines to locate and evaluate information.</p> <p>2.6 Select information from the internet that is appropriate to a specific topic.</p> <p>2.7 Creative Writing: “How have computers helped to change our lives in the past 100 years”?</p>

**Farmingdale Public Schools**

**Instructional Technology Standards – Intermediate GRADE 5**

**Standard 3: Technology Productivity Tools**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
3.1 Uses technology tools to enhance learning, increase productivity and promote creativity.	3.1 Use of icons in the menu bar to create published works and interdisciplinary projects.	3.1 Create a published piece of writing, or graph, on a specific topic.
3.2 Uses productivity tools to collaborate in constructing technology – enhance models, prepares publications and produces other creative works.	3.2 Use of technology tools such as digital cameras, scanners, multimedia authoring, presentation.	3.2 Use scanned images in a report. Create a poster and report regarding a digital image taken with a digital camera. Develop a spreadsheet to organize mathematical data.

**Standard 4: Technology Communication Tools**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
4.1 Uses telecommunications to collaborate, publish and interact with peers, experts and other audiences.	4.1 Use telecommunication and online resources (eg., e-mail, online chats, web sites) to participate in collaborative problem-solving activities for the purpose of developing solutions or products for audiences inside and outside of the classroom.	4.1 Participate in online chats with authors, scientists, other classes, key-pals, local government officials, e-mail. Create a classroom newsletter.
4.2 Uses a variety of media in formats to communicate information and ideas effectively to multiple audiences.	4.2 Use of multimedia software programs such as HyperStudio and PowerPoint to create individual and collaborative publications.	4.2 Collaborate with other students to create a HyperStudio or PowerPoint presentation on a specific topic.

**Farmingdale Public Schools**  
**Instruction Technology Standards – Intermediate GRADE 5**

**Standard 5: Technology Research Tools**

Target Indicators	Student Expectations	Technology Applications
<p>5.1 Uses technology to locate, evaluate and collect information from a variety of sources.</p> <p>5.2 Uses technology tools to process data and report results.</p> <p>5.3 Evaluates and selects new information resources and technological innovations based upon the appropriateness to specific tasks.</p>	<p>5.1 Uses technology resources such as calculators, OPACs, videos, laser discs, CD-ROMs for problem-solving, self-directed learning and extended learning activities.</p> <p>5.2 Ability to use technology tools to gather data and present information.</p> <p>5.3 Can discriminate, select, and evaluate a variety of technology tools appropriate for the task at hand.</p>	<p>5.1 Use OPAC to locate information using a variety of sources – laser disc, video, CD-ROM.</p> <p>5.2 Independent study – Oral presentation from information gathered via technology.</p> <p>5.3 Use an appropriate search engine to preview sites for specific research topic. List appropriate sites.</p>

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

Target Indicators	Student Expectations	Technology Applications
<p>6.5 Uses technology resources for problem solving and making informed decisions.</p> <p>6.6 Employs technology in the development of strategies for problems in the real world.</p>	<p>6.1 Ability to use and evaluate a variety of technology resources such as the Internet for problem solving and decision making.</p> <p>6.2 Evaluates the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.</p>	<p>6.1 Use simulated CD-ROM programs to practice problem solving techniques. Solve problems on simulations. Design a simulation for others to solve.</p> <p>6.2 Brainstorm an environmental problem. Find solutions that could help this situation. Local information on an American issue (eg. poverty.) How can technology be used to help?</p>

Farmingdale Public Schools

**Instructional Technology Standards  
INTERMEDIATE GRADE 6**

**Standard 1: Basic operations and concepts**

Target Indicators	Student Expectations	Technology Applications
1.5 Demonstrates a sound understanding of the nature and operations of technology systems.	1.5 Log in/log out. Purpose and definition of mouse, keyboarding, defining and discerning between word processing, graphics and desktop publishing. Has a command of computer terms and internet extensions.	1.7 Use the computer as a tool to create a written piece to include graphics, tables, and charts. Utilize various search engines to locate specific information. Create an electronic presentation related to a research topic.
1.2 Proficient in the use of technology.	1.2 Load paper. Load CD-ROM. Turn on printer. Keyboarding skills. Access internet and download internet information. Use of search engines.	1.8 Locate appropriate research information from internet sites for reports. Download internet information and print.

**Standard 2: Social, Ethical and Human Issues**

Target Indicators	Student Expectations	Technology Applications
2.1 Understands the ethical, cultural and societal issues related to technology  2.2 Practices responsible use of technology to systems, information and software  2.3 Develops positive attitudes towards technology uses that support lifelong learning, collaboration, personal pursuit and productivity.	2.1 Ability to discern between accurate information and inappropriate information.  2.2 Plagiarism, using appropriate information.  2.3 Building on skills previously learned.	2.1 Create a display (focus question/poster session) comparing early communication tools with the computer. Utilize appropriate search engines to locate and evaluate information.  2.8 Select information from the internet that is appropriate to a specific topic.  2.9 Creative Writing: “Describe how technology has evolved from ancient civilizations to modern day society”.

**Farmingdale Public Schools**

**Instructional Technology Standards – Intermediate GRADE 6**

**Standard 3: Technology Productivity Tools**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
<p>3.1 Uses technology tools to enhance learning, increase productivity and promote creativity.</p> <p>3.2 Uses productivity tools to collaborate in constructing technology – enhance models, prepares publications and produces other creative works.</p>	<p>3.1 Use of icons in the menu bar to create published works and interdisciplinary projects.</p> <p>3.2 Use of technology tools such as digital cameras, scanners, multimedia authoring, presentation.</p>	<p>3.1 Create a published piece of writing, or graph, on a specific topic. Design a resume format. Create a business letter to a specific company. Create a logo to represent a new venture.</p> <p>3.2 Use scanned images in a report. Create a poster and oral report regarding a digital image taken with a digital camera. Develop a spreadsheet to organize mathematical data. Incorporate digital/video clips into a report/presentation. Incorporate digital/video clips into a report/presentation.</p>

**Standard 4: Technology Communication Tools**

Target Indicators	Student Expectations	Technology Applications
<p>4.1 Uses telecommunications to collaborate, publish and interact with peers, experts and other audiences.</p>	<p>4.1 Use telecommunication and online resources (eg., e-mail, online chats, web sites) to participate in collaborative problem-solving activities for the purpose of developing solutions or products for audiences inside and outside of the classroom.</p>	<p>4.1 Participate in online chats with authors, scientists, other classes, key-pals, local government officials, e-mail. Create a classroom newsletter. Communicate on-line with e-mail. Use electronic mail to send/receive messages.</p>
<p>4.2 Uses a variety of media in formats to communicate information and ideas effectively to multiple audiences.</p>	<p>4.2 Use of multimedia software programs such as HyperStudio and PowerPoint to create individual and collaborative publications.</p>	<p>4.2 Collaborate with other students to create a HyperStudio or PowerPoint presentation on a specific topic. Run a HyperStudio or PowerPoint presentation – Present to the class.</p>

**Farmingdale Public Schools**

**Instruction Technology Standards – Intermediate GRADE 6**

**Standard 5: Technology Research Tools**

Target Indicators	Student Expectations	Technology Applications
<p>5.1 Uses technology to locate, evaluate and collect information from a variety of sources.</p>	<p>5.1 Uses technology resources such as calculators, OPACs, videos, laser discs, CD-ROMs for problem-solving, self-directed learning and extended learning activities.</p>	<p>5.1 Use OPAC to locate information using a variety of sources – laser disc, video, CD-ROM.</p>
<p>5.2 Uses technology tools to process data and report results.</p>	<p>5.2 Ability to use technology tools to gather data and present information.</p>	<p>5.2 Independent study – Oral presentation and graphic display from information gathered via technology.</p>
<p>5.3 Evaluates and selects new information resources and technological innovations based upon the appropriateness to specific tasks.</p>	<p>5.3 Can discriminate, select, and evaluate a variety of technology tools appropriate for the task at hand.</p>	<p>5.3 Preview sites for specific information. Be able to cite appropriate sources of information. List appropriate sites.</p>

## **Standard 6: Technology Problem Solving and Decision Making Tools**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
6.1 Uses technology resources for problem solving and making informed decisions.	6.1 Ability to use and evaluate a variety of technology resources such as the Internet for problem solving and decision making.	6.1 Use simulated CD-ROM programs to practice problem solving techniques. Solve problems on simulations. Design a simulation for others to solve. Interact with virtual models/use Web quests to problem solve.
6.2 Employs technology in the development of strategies for problems in the real world.	6.2 Evaluates the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.	6.2 Brainstorm how technology is used in various fields of study (ex. Space, underwater technologies.) Local information on how democracy has evolved from ancient civilizations to present day. What is the impact of technology in our society today?

Farmingdale Public Schools

**Instructional Technology Standards  
INTERMEDIATE GRADE 6**

**Standard 1: Basic operations and concepts**

Target Indicators	Student Expectations	Technology Applications
<p>1.6 Demonstrates a sound understanding of the nature and operations of technology systems.</p> <p>1.2 Proficient in the use of technology.</p>	<p>1.6 Log in/log out. Purpose and definition of mouse, keyboarding, defining and discerning between word processing, graphics and desktop publishing. Has a command of computer terms and internet extensions.</p> <p>1.2 Load paper. Load CD-ROM. Turn on printer. Keyboarding skills. Access internet and download internet information. Use of search engines.</p>	<p>1.9 Use the computer as a tool to create a written piece to include graphics, tables, and charts. Utilize various search engines to locate specific information. Create an electronic presentation related to a research topic.</p> <p>1.10 Locate appropriate research information from internet sites for reports. Download internet information and print.</p>

**Standard 2: Social, Ethical and Human Issues**

Target Indicators	Student Expectations	Technology Applications
<p>2.1 Understands the ethical, cultural and societal issues related to technology</p> <p>2.2 Practices responsible use of technology to systems, information and software</p> <p>2.3 Develops positive attitudes towards technology uses that support lifelong learning, collaboration, personal pursuit and productivity.</p>	<p>2.1 Ability to discern between accurate information and inappropriate information.</p> <p>2.2 Plagiarism, using appropriate information.</p> <p>2.3 Building on skills previously learned.</p>	<p>2.1 Create a display (focus question/poster session) comparing early communication tools with the computer. Utilize appropriate search engines to locate and evaluate information.</p> <p>2.10 Select information from the internet that is appropriate to a specific topic.</p> <p>2.11 Creative Writing: “Describe how technology has evolved from ancient civilizations to modern day society”.</p>

**Farmingdale Public Schools**

**Instructional Technology Standards – Intermediate GRADE 6**

**Standard 3: Technology Productivity Tools**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
<p>3.1 Uses technology tools to enhance learning, increase productivity and promote creativity.</p> <p>3.2 Uses productivity tools to collaborate in constructing technology – enhance models, prepares publications and produces other creative works.</p>	<p>3.1 Use of icons in the menu bar to create published works and interdisciplinary projects.</p> <p>3.2 Use of technology tools such as digital cameras, scanners, multimedia authoring, presentation.</p>	<p>3.1 Create a published piece of writing, or graph, on a specific topic. Design a resume format. Create a business letter to a specific company. Create a logo to represent a new venture.</p> <p>3.2 Use scanned images in a report. Create a poster and oral report regarding a digital image taken with a digital camera. Develop a spreadsheet to organize mathematical data. Incorporate digital/video clips into a report/presentation. Incorporate digital/video clips into a report/presentation.</p>

**Standard 4: Technology Communication Tools**

Target Indicators	Student Expectations	Technology Applications
<p>4.1 Uses telecommunications to collaborate, publish and interact with peers, experts and other audiences.</p>	<p>4.1 Use telecommunication and online resources (eg., e-mail, online chats, web sites) to participate in collaborative problem-solving activities for the purpose of developing solutions or products for audiences inside and outside of the classroom.</p>	<p>4.1 Participate in online chats with authors, scientists, other classes, key-pals, local government officials, e-mail. Create a classroom newsletter. Communicate on-line with e-mail. Use electronic mail to send/receive messages.</p>
<p>4.2 Uses a variety of media in formats to communicate information and ideas effectively to multiple audiences.</p>	<p>4.2 Use of multimedia software programs such as HyperStudio and PowerPoint to create individual and collaborative publications.</p>	<p>4.2 Collaborate with other students to create a HyperStudio or PowerPoint presentation on a specific topic. Run a HyperStudio or PowerPoint presentation – Present to the class.</p>

**Farmingdale Public Schools**

**Instruction Technology Standards – Intermediate GRADE 6**

**Standard 5: Technology Research Tools**

Target Indicators	Student Expectations	Technology Applications
<p>5.1 Uses technology to locate, evaluate and collect information from a variety of sources.</p>	<p>5.1 Uses technology resources such as calculators, OPACs, videos, laser discs, CD-ROMs for problem-solving, self-directed learning and extended learning activities.</p>	<p>5.1 Use OPAC to locate information using a variety of sources – laser disc, video, CD-ROM.</p>
<p>5.2 Uses technology tools to process data and report results.</p>	<p>5.2 Ability to use technology tools to gather data and present information.</p>	<p>5.2 Independent study – Oral presentation and graphic display from information gathered via technology.</p>
<p>5.3 Evaluates and selects new information resources and technological innovations based upon the appropriateness to specific tasks.</p>	<p>5.3 Can discriminate, select, and evaluate a variety of technology tools appropriate for the task at hand.</p>	<p>5.3 Preview sites for specific information. Be able to cite appropriate sources of information. List appropriate sites.</p>

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

Target Indicators	Student Expectations	Technology Applications
<p>6.7 Uses technology resources for problem solving and making informed decisions.</p> <p>6.8 Employs technology in the development of strategies for problems in the real world.</p>	<p>6.1 Ability to use and evaluate a variety of technology resources such as the Internet for problem solving and decision making.</p> <p>6.2 Evaluates the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.</p>	<p>6.1 Use simulated CD-ROM programs to practice problem solving techniques. Solve problems on simulations. Design a simulation for others to solve. Interact with virtual models/use Web quests to problem solve.</p> <p>6.2 Brainstorm how technology is used in various fields of study (ex. Space, underwater technologies.) Local information on how democracy has evolved from ancient civilizations to present day. What is the impact of technology in our society today?</p>

Farmingdale Public Schools

**Instructional Technology  
Standards – Secondary (High School)**

**Standard 1: Basic operations and concepts**

<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
<p>1.1 Demonstrates a sound understanding of the nature and operation of technology system.</p> <p>1.2 Proficient in the use of technology.</p>	<p>1.1 Student can make informed choices among technology, resources and services.</p> <p>1.2 Student can describe what a computer is and what it can do.</p> <ul style="list-style-type: none"><li>• Student can identify the parts of a computer and describe what it can do. Students can compare and evaluate computer systems available commercially and make an educated decision about which system is most appropriate for their needs. Student can use the entire keyboard.</li></ul>	<p>1.1 Students will use Microsoft Word to create word processing documents.</p> <p>1.2 Students will use Microsoft Excel to create spreadsheets and graphs. Students will use Microsoft PowerPoint to prepare and present information. Students will be able to identify the hard drive, disk drive, CPU, CD-ROM. Students will be able to decide which computer is appropriate for their post-High School career/schooling.</p>

## Standard 2: Social, Ethical and Human Issues

Target Indicators	Student Expectations	Technology Applications
<p>2.1 Understands the ethical, cultural and societal issues related to technology.</p> <p>2.2 Practices responsible use of technology to systems, information and software.</p> <p>2.3 Develops positive attitudes towards technology uses that support lifelong learning, collaboration, personal pursuit and productivity.</p>	<p>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.</p> <ul style="list-style-type: none"> <li>• Analyze advantages and disadvantages of widespread use and reliance on technology in the workplace and in society as a whole.</li> <li>• Students are aware of the controversial aspects of technology use including data privacy, equitable access, and free speech issues.</li> </ul> <p>2.2 Demonstrate and advocate for legal and ethical behaviors among peoples, family and community regarding the use of technology and information.</p> <ul style="list-style-type: none"> <li>• Students demonstrate an understanding of the difference between freeware, shareware, and commercial software and the fees involved in the use of each.</li> <li>• Students know and enforce the school's technology policies and guidelines, including its Internet Acceptable Use Policy.</li> </ul> <p>2.3 Students demonstrate that they can apply to their personal and professional lives technology skills that they have learned.</p>	<p>2.1 Students will write a position paper or take a position in a debate on issues such as plagiarism, privacy, or censorship.</p> <ul style="list-style-type: none"> <li>• Students will do a term paper/research paper correctly using electronic citations. (MLA style)</li> </ul> <p>2.2 Students will select information from the internet that is appropriate to a specific topic.</p> <p>2.3 Students will develop a creative writing exercise to support the positive effect technology has had on their careers as students.</p>

### Standard 3: Technology Productivity Tools

Target Indicators	Student Expectations	Technology Applications
<p>3.1 Uses technology tools to enhance learning, increase productivity and promote creativity.</p> <p>3.2 Uses productivity tools to collaborate in constructing technology – enhance models, prepares publications and produces other creative works.</p>	<p>3.1 Use technology tools and resources for managing and communicating personal/professional information. For example students can utilize word processing, graphics, spreadsheet programs to produce finances, schedules, addresses, and purchases, correspondence.</p> <p>3.2 Students can demonstrate the use of presentation programs for not only classroom projects but also extracurricular activities such as school organizations, clubs, and publications.</p>	<p>3.1 Students will use a spreadsheet program to gather information via the internet to organize long-term data.</p> <p>3.2 Students will use a PowerPoint presentation to demonstrate club-sponsored activities to outside parties.</p> <ul style="list-style-type: none"> <li>• Students will use a digital camera to take pictures of club or school organizational activities to use in presentations, ie. fund raising, community presentations, etc.</li> </ul>

**Farmingdale Public Schools**  
**Instructional Technology Standards – Secondary (High School)**

### Standard 4: Technology Communication Tools

Target Indicators	Student Expectations	Technology Applications
<p>4.1 Uses telecommunications to collaborate, publish and interact with peers, experts and other audiences.</p> <p>4.2 Uses a variety of media in formats to communicate information and ideas effectively to multiple audiences.</p>	<p>4.1 Students can use E-mail, web sites, electronic discussion groups, electronic on-line journals.</p> <p>4.2 Students can produce data, audio, video and files can posted on a web page and transmitted globally.</p>	<p>4.1 Each student will be able to use the internet to send and receive E-mail messages and/or send and receive attached files.</p> <ul style="list-style-type: none"> <li>• Each student will be able to use the internet to submit or replace information from electronic discussion groups or electronic on-line journals.</li> </ul> <p>4.2 Each student will be able to create a web site.</p> <ul style="list-style-type: none"> <li>• Each student will be able to create a PowerPoint presentation which contains data, digital pictures, audio files, and video files.</li> </ul>

		<ul style="list-style-type: none"> <li>• Each student will be able to place a PowerPoint presentation on his or her own web site.</li> <li>• Each student will be able to create Filamentality pages and Webquests.</li> </ul>
<b>Standard 5: Technology Research Tools</b>		
<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
5.1 Uses technology to locate, evaluate and collect information from a variety of sources.	5.1 Students will be able to locate, evaluate, and use information from a variety of sources including OPAC (Online Public Access Catalog) CD-ROMs and the internet to collect information.	5.1 Students will be able to locate title, author or subject for curriculum research using Boolean Logic, search engines and specific URLs (ie. Yahoo.finance.com for business/economics/stock quotes).
5.2 Uses technology tools to process data and report results.	5.2 Students can use basic tools such as database, spreadsheet, and word processing and presentation programs to process and report results.	5.2 Students will master PowerPoint for class presentations of research results. (uploading graphics; digital scanning)
5.3 Evaluates and selects new information resources and technological innovations based upon the appropriateness to specific tasks.	5.3 Students can investigate and apply expert systems, intelligent agents, and simulations in real world situations, i.e., finance programs, architectural programs.	5.3 Students will be actively involved with teleconferencing.
<b>Standard 6: Technology Problem Solving and Decision Making Tools</b>		
<b>Target Indicators</b>	<b>Student Expectations</b>	<b>Technology Applications</b>
6.1 Uses technology resources for problem solving and making informed decisions.	6.1 Collaborate with peers, experts and other to contribute to a content-related base by using technology to compile, synthesize, produce, and disseminate information, models, and other creative works, such as The Jason Project, Long Island Sound Study, etc.	6.1 Students will be able to work with peers to create content related PowerPoint presentations.
6.2 Employs technology in the development of strategies for problems in the real world.	6.2 Research and report on the interaction of technology with other fields <ul style="list-style-type: none"> <li>• Use appropriate software (statistical, database, spreadsheet etc.) to evaluate information</li> </ul>	6.2 Students will be able to work in conjunction with outside experts via the internet or teleconferencing on ongoing research projects.

