

SUDBURY PUBLIC SCHOOLS
EDUCATIONAL TECHNOLOGY STANDARDS AND LEARNING EXPECTATIONS FOR STUDENTS K – 5

	BASIC OPERATIONS AND CONCEPTS	SOCIAL, ETHICAL, AND HUMAN ISSUES RELATED TO TECHNOLOGY
Standards	Students will: <ul style="list-style-type: none"> ◇ demonstrate a sound understanding of the nature and operation of technology systems, and be proficient in the use of technology. 	Students will: <ul style="list-style-type: none"> ◇ 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.
K – 2	<p><u>The standard is evident when students know and are able to demonstrate performance indicators and the following competencies or skills:</u></p> <ul style="list-style-type: none"> • communicate about technology using developmentally appropriate and accurate terminology; • use common input devices (e.g. mouse, keyboard) and output devices (e.g. monitor, printer) including adaptive devices when necessary to successfully operate computers, VCR's, audiotapes, and other technologies; • use basic menus to navigate (open, log on, close, save, quit, retrieve, print); • appreciate and respect the equipment (no food, use equipment with care and cleanliness); • use developmentally appropriate multimedia resources (e.g., interactive books, educational software, elementary multimedia encyclopedias) to support learning; • use a variety of media and technology resources for directed and independent learning activities. 	<p><u>The standard is evident when students know and are able to demonstrate performance indicators and the following competencies or skills:</u></p> <ul style="list-style-type: none"> • work cooperatively and collaboratively with peers, and others when using technology in the classroom; • respect the ownership of another's work, show responsible use of technology and information, and describe personal consequences of inappropriate use; • demonstrate responsible use of technology systems, information, and software and appreciate and respect the equipment (no food, use equipment with care and cleanliness, etc.); • abide by school rules for appropriate use of the internet.
3 – 5	<p><u>The standard is evident when intermediate grade level students know and are able to demonstrate primary grade level indicators and continue mastery.</u></p>	<p><u>The standard is evident when intermediate grade level students know and are able to demonstrate both primary grade level indicators and the following competencies and skills:</u></p> <ul style="list-style-type: none"> • demonstrate awareness and discuss uses of technology in their daily life and the advantages and disadvantages those uses provide; • evaluate the accuracy, relevance, appropriateness, comprehensiveness and bias of electronic information sources.

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	TECHNOLOGY PRODUCTIVITY/PRESENTATION TOOLS	TECHNOLOGY COMMUNICATIONS TOOLS
Standards	<p>Students will:</p> <ul style="list-style-type: none"> ◇ use technology tools to enhance learning throughout the curriculum, increased productivity, and promote creativity; ◇ use productivity tools to collaborate in constructing technology-enhanced models, preparing publications, and producing other creative works for audiences inside and outside the classroom. 	<p>Students will:</p> <ul style="list-style-type: none"> ◇ 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.
K – 2	<p><u>The standard is evident when students know and are able to demonstrate performance indicators and the following competencies or skills:</u></p> <ul style="list-style-type: none"> • demonstrate minimal word processing skills use a variety of media and technology resources for directed and independent learning activities; • create developmentally appropriate multimedia projects with support that represent knowledge related to any curriculum area; • use technology resources with support (e.g., puzzles, logical thinking programs, writing tools, digital cameras, drawing tools) for problem solving, communication, and illustration of thoughts, ideas, and stories; • use a productivity package with support to present information gathered (i.e. graph, database, spreadsheet, timelines, etc.). 	<p><u>The standard is evident when students know and are able to demonstrate performance indicators and the following competencies or skills:</u></p> <ul style="list-style-type: none"> • utilize technology to electronically communicate either locally (ex. through a group letter to other students via e-mail within the school/ district), and/or globally (ex. pen-pals), through teacher assistance and supervision; • abide by school rules for appropriate use of the internet.
3 – 5	<p><u>The standard is evident when intermediate grade level students know and are able to demonstrate both primary grade level indicators and the following competencies and skills:</u></p> <ul style="list-style-type: none"> • demonstrate basic word processing skills; • work between two documents (copying and pasting graphics and/or text); • use multimedia authoring package and Web tools to create illustrations and/or stories that represent knowledge related to any curriculum area; • use multimedia presentation of their graphic and/or written work with teacher assistance; • explore the use of digital cameras and scanners. 	<p><u>The standard is evident when intermediate grade level students know and are able to demonstrate primary grade level indicators and continue mastery.</u></p>

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	TECHNOLOGY RESEARCH TOOLS
Standards	Students will: <ul style="list-style-type: none"> ◊ 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 to specific tasks.
K – 2	<p><u>The standard is evident when students know and are able to demonstrate performance indicators and the following competencies or skills:</u></p> <ul style="list-style-type: none"> • access “bookmarked” or predetermined web sites on the internet and /or use CD-ROM technology as a source of information with teacher assistance and supervision; • use basic internet navigation skills (hotlinks, backward, forward).
3 – 5	<p><u>The standard is evident when intermediate grade level students know and are able to demonstrate both primary grade level indicators and the following competencies and skills:</u></p> <ul style="list-style-type: none"> • use basic internet navigation skills with teacher assistance and supervision (keyword and search methods, backward, forward, search engines); • discuss the basic ethical issues relating to the internet: importance of safety, privacy, respect for another’s work (use or misuse of copyright laws, citing sources); • use telecommunications and online resources to participate in collaborative problem-solving activities for the purpose of developing solutions or products for audiences inside or outside the classroom with teacher assistance and supervision.