

Technology

<http://www.education-world.com/standards/national/technology/index.shtml>

Problems							
Primary	1	2	3	4	5	BASIC OPERATIONS AND CONCEPTS	In grades 3-5 all students should:
	X	X	X	X	X	<ul style="list-style-type: none"> Be proficient in the use of technology 	
						SOCIAL, ETHICAL, AND HUMAN ISSUES	In grades 3-5 all students should:
	X X	X X	X X	X X	X X	<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 	
						TECHNOLOGY PRODUCTIVITY TOOLS	In grades 3-5 all students should:
	X	X	X	X	X	<ul style="list-style-type: none"> Use technology tools to enhance learning, increase productivity, and promote creativity Use general purpose productivity tools and peripherals to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum. Use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works 	
						TECHNOLOGY COMMUNICATIONS TOOLS	In grades 3-5 all students should:
	X X X	X X X	X X X	X X X	X X X	<ul style="list-style-type: none"> Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences Use technology tools (e.g., multimedia authoring, presentation, Web tools, digital cameras, scanners) for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom. Use a variety of media and formats to communicate information and ideas effectively to multiple audiences Use telecommunications efficiently and effectively to access remote information, communicate with others in support of direct and independent learning, and pursue personal interests. 	
						TECHNOLOGY RESEARCH TOOLS	In grades 3-5 all students should:
	X X X X X	X X X X X	X X X X X	X X X X X	X X X X X	<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 Use telecommunications and online resources (e.g., e-mail, online discussions, Web environments) to participate in collaborative problem-solving activities for the purpose of developing solutions or products for audiences inside and outside the classroom. Use technology resources (e.g., calculators, data collection probes, videos, educational software) for problem solving, self-directed learning, and extended learning activities. Determine when technology is useful and select the appropriate tool(s) and technology resources to address a variety of tasks and problems. Evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks 	
						TECHNOLOGY PROBLEM-SOLVING AND DECISION-MAKING TOOLS	In grades 3-5 all students should:
	X X X	X X X	X X X	X X X	X X X	<ul style="list-style-type: none"> Use technology resources for solving problems and making informed decisions Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources. Employ technology in the development of strategies for solving problems in the real world 	

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Problems							
Primary	1	2	3	4	5	BASIC OPERATIONS AND CONCEPTS	In grades 6-8 all students should:
	X	X	X	X	X		<ul style="list-style-type: none"> Be proficient in the use of technology
						SOCIAL, ETHICAL, AND HUMAN ISSUES	In grades 6-8 all students should:
	X	X	X	X	X		<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
	X	X	X	X	X	TECHNOLOGY PRODUCTIVITY TOOLS	In grades 6-8 all students should:
							<ul style="list-style-type: none"> Use technology tools to enhance learning, increase productivity, and promote creativity Use content-specific tools, software, and simulations (e.g., environmental probes, graphing calculators, exploratory environments, Web tools) to support learning and research Apply productivity/multimedia tools and peripherals to support personal productivity, group collaboration, and learning throughout the curriculum. Use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works
	X	X	X	X	X	TECHNOLOGY COMMUNICATIONS TOOLS	In grades 6-8 all students should:
	X	X	X		X		<ul style="list-style-type: none"> Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences Design, develop, publish, and present products (e.g., Web pages, videotapes) using technology resources that demonstrate and communicate curriculum concepts to audiences inside and outside the classroom. Use a variety of media and formats to communicate information and ideas effectively to multiple audiences
	X	X	X	X	X	TECHNOLOGY RESEARCH TOOLS	In grades 6-8 all students should:
							<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 Collaborate with peers, experts, and others using telecommunications and collaborative tools to investigate curriculum-related problems, issues, and information, and to develop solutions or products for audiences inside and outside the classroom Select and use appropriate tools and technology resources to accomplish a variety of tasks and solve problems Evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks
	X	X	X	X	X	TECHNOLOGY PROBLEM-SOLVING AND DECISION-MAKING TOOLS	In grades 6-8 all students should:
							<ul style="list-style-type: none"> Use technology resources for solving problems and making informed decisions Research and evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources concerning real-world problems Employ technology in the development of strategies for solving problems in the real world

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Problems							
Primary	1	2	3	4	5	BASIC OPERATIONS AND CONCEPTS	In grades 9-12 all students should:
	X	X	X	X	X	<ul style="list-style-type: none"> Be proficient in the use of technology Make informed choices among technology systems, resources, and services 	
	X	X	X	X	X		
						SOCIAL, ETHICAL, AND HUMAN ISSUES	In grades 9-12 all students should:
		X	X	X	X	<ul style="list-style-type: none"> Understand the ethical, cultural, and societal issues related to technology 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 Practice responsible use of technology systems, information, and software 	
	X	X	X	X	X		
						TECHNOLOGY PRODUCTIVITY TOOLS	In grades 9-12 all students should:
	X	X	X	X	X	<ul style="list-style-type: none"> Use technology tools to enhance learning, increase productivity, and promote creativity Use technology tools and resources for managing and communicating personal/professional information (e.g., finances, schedules, addresses, purchases, correspondence). Use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works 	
	X	X	X	X	X		
	X	X	X		X		
						TECHNOLOGY COMMUNICATIONS TOOLS	In grades 9-12 all students should:
	X	X	X	X	X	<ul style="list-style-type: none"> Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences Routinely and efficiently use online information resources to meet needs for collaboration, research, publication, communication, and productivity Use a variety of media and formats to communicate information and ideas effectively to multiple audiences 	
	X	X	X	X	X		
	X	X	X		X		
						TECHNOLOGY RESEARCH TOOLS	In grades 9-12 all students should:
	X	X	X	X	X	<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 Select and apply technology tools for research, information analysis, problem solving, and decision making in content learning Evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks 	
						TECHNOLOGY PROBLEM-SOLVING AND DECISION-MAKING TOOLS	In grades 9-12 all students should:
	X	X	X	X	X	<ul style="list-style-type: none"> Use technology resources for solving problems and making informed decisions Investigate and apply expert systems, intelligent agents, and simulations in real-world situations Employ technology in the development of strategies for solving problems in the real world 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 	
	X	X		X			
	X	X		X			
	X	X	X	X	X		