

INFORMATION AND COMMUNICATION TECHNOLOGY

Division II

LEGEND:

★ - As there is much overlap for the various outcomes, the star indicates ultimate grade level responsibility. Outcomes achieved at earlier grade levels are not repeated in the next level, however it is assumed that the skills are progressive, as in a spiraling curriculum, with simple skills leading to more complex ones and earlier outcomes being maintained and demonstrated at higher levels of efficiency and application.

On-going – indicates those outcomes covered in normal day-to-day use of technology

Illustrative examples are listed by Grade/Subject/Unit, Topic or Strand if applicable /Example Number if applicable e.g. 4SocialB-1 means Gr. 4 Social, Topic B, Plan #1

Communicating, Inquiring, Decision Making and Problem Solving

GO #	SO#	Specific Outcome	Gr. 4	Gr. 5	Gr. 6
C1	Students will access, use and communicate information from a variety of technologies.				
	2.1	access and retrieve appropriate information from the Internet by using a specific search path or from given uniform resource locations (URLs)	★ 4SocialB-1 4SocialB-2	5LA 5ScienceD 5SocialA	
	2.2	organize information gathered from the Internet, or an electronic source, by selecting and recording the data in logical files or categories; and by communicating effectively, through appropriate forms, such as speeches, reports and multimedia presentations, applying information technologies that serve particular audiences and purposes	4ScienceA 4SocialB-1 4SocialB-2	★ 5LA 5ScienceD 5SocialA	6LA-3 6SocialA
C2	Students will seek alternative viewpoints, using information technologies.				
	2.1	seek responses to inquiries from various authorities through electronic media		★ 5ScienceD 5SocialA	
C3	Students will critically assess information accessed through the use of a variety of technologies.				
	2.1	identify and distinguish points of view expressed in electronic sources on a particular topic		5ScienceD	★ 6SocialA
	2.2	recognize that information serves different purposes and that data from electronic sources may need to be verified to determine accuracy or relevance for the purpose used		★ 5LA 5ScienceD 5SocialA	6SocialA
C4	Students will use organizational processes and tools to manage inquiry.				
	2.1	design and follow a plan, including a schedule to be used during an inquiry process, and make revisions to the plan, as necessary		★ 5ScienceD	6LA-1 6LA-2 6LA-3
	2.2	organize information, using such tools as a database, spreadsheet or electronic webbing		★ 5LA 5SocialA	
	2.3	reflect on and describe the processes involved in completing a project			★ 6LA-1 6LA-2 6LA-3



GO #	SO#	Specific Outcome	Gr. 4	Gr. 5	Gr. 6
C5	Students will use technology to aid collaboration during inquiry.				
	2.1	retrieve data from available storage devices, such as a shared folder, to which a group has contributed			★ 6LA-3
	2.2	record group brainstorming, planning and sharing of ideas by using technology		★ 5LA	6LA-3
	2.3	extend the scope of a project beyond classroom collaboration by using communication technologies, such as telephone and email		★ 5SocialA	
C6	Students will use technology to investigate and/or solve problems.				
	2.1	select and use technology to assist in problem-solving	★ 4ScienceA	5ScienceD	6Math 6ScienceD
	2.2	use data gathered from a variety of electronic sources to address identified problems	★ 4SocialB-1 4SocialB-2	5ScienceD	
	2.3	use graphic organizers, such as mind mapping/webbing, flow charting and outlining, to present connections between ideas and information in a problem-solving environment	★ 4ScienceA	5LA	
	2.4	solve problems, using numerical operations and such tools as calculators and spreadsheets			★ 6Math
	2.5	solve problems requiring the sorting, organizing, classifying and extending of data, using such tools as calculators, spreadsheets, databases or hypertext technology	4SocialB-1 4SocialB-2	★ 5ScienceD	6Math 6SocialA
	2.6	solve issue-related problems, using such communication tools as a word processor or email to involve others in the process		★ 5SocialA	
	2.7	generate alternative solutions to problems by using technology to facilitate the process	★ 4LA 4ScienceA		
C7	Students will use electronic research techniques to construct personal knowledge and meaning.				
	2.1	use a variety of technologies to organize and synthesize researched information	★ 4ScienceA	5SocialA	
	2.2	use selected presentation tools to demonstrate connections among various pieces of information	4ScienceA	5ScienceD	★ 6LA-3 6Math



Foundational Operations, Knowledge and Concepts					
GO #	SO#	Specific Outcome	Gr. 4	Gr. 5	Gr. 6
F1	Students will demonstrate an understanding of the nature of technology.				
	2.1	apply terminology appropriate to the technologies being used at this division level (NOTE: One of the needs that has been identified at the jurisdiction level is to create a list of terminology appropriate to the various grade levels. This is a project that will be the focus of Technology Committee meetings in the 2000-2001 school year.)	★ 4LA 4Math 4ScienceA 4SocialB-1 4SocialB-2	★ 5Math	★ 6LA-1 6LA-2 6LA-3 6Math 6ScienceD 6SocialA
	2.2	identify and apply techniques and tools for communicating, storing, retrieving and selecting information	★ 4LA 4Math 4ScienceA 4SocialB-1 4SocialB-2	5Math	6LA-1 6LA-2 6Math 6ScienceD 6SocialA
	2.3	explain the advantages and limitations of using computers to store, organize, retrieve and select information	4LA 4Math	5Math	★ 6LA-3 6Math
	2.4	recognize the potential for human error when using technology	★ 4LA		6ScienceD
F2	Students will understand the role of technology as it applies to self, work and society.				
	2.1	identify how technological developments influence one's life			★ 6SocialA
	2.2	identify the role technology plays in a variety of careers			★ 6SocialA
	2.3	examine the environmental issues related to the use of technology	★ 4ScienceA		
	2.4	assess the personal significance of having limitless access to information provided by communication networks, such as the Internet	4SocialB-1 4SocialB-2	★ 5LA 5ScienceD	6SocialA
	2.5	describe, using examples, how communication and information networks, such as the telephone and the Internet, create a global community		★ 5SocialA	6SocialA



GO #	SO#	Specific Outcome	Gr. 4	Gr. 5	Gr. 6
F3	Students will demonstrate a moral and ethical approach to the use of technology.				
	2.1	comply with the acceptable use policy of the school and school authority for Internet and networked services, including software licensing agreements	<i>On-going</i>		
	2.2	work collaboratively to share limited resources	<i>On-going</i>		
	2.3	use appropriate communication language and etiquette	<i>On-going</i>		
	2.4	document sources obtained electronically, such as web site addresses	<i>On-going</i>		
	2.5	respect the privacy and products of others	<i>On-going</i>		
	2.6	use electronic networks in an ethical manner	<i>On-going</i>		
	2.7	comply with copyright legislation	<i>On-going</i>		
F4	Students will become discerning consumers of mass media and electronic information.				
	2.1	recognize that graphics, video and sound enhance communication	★ 4ScienceA 4SocialB-1 4SocialB-2		6LA-1 6LA-2 6LA-3 6ScienceD
	2.2	describe how the use of various texts and graphics can alter perception	4ScienceA		★ 6LA-1 6LA-2 6ScienceD
	2.3	discuss how technology can be used to create special effects and/or to manipulate intent through the use of images and sound	4ScienceA		★ 6LA-1 6LA-2 6ScienceD
F5	Students will practise the concepts of ergonomics and safety when using technology.				
	2.1	demonstrate the application of ergonomics to promote personal health and well-being	<i>On-going</i>		
	2.2	identify and apply safety procedures required for the technology being used	<i>On-going</i>		
F6	Students will demonstrate a basic understanding of the operating skills required in a variety of technologies.				
	2.1	power up and power down various technologies and peripherals correctly	<i>On-going</i>		
	2.2	use and organize files and directories	★ <i>Create, rename and delete files</i>	★ <i>Create and save to a folder</i>	★ <i>Move files within folders</i>
	2.3	use peripherals, including printers and scanners	★ <i>Printer</i> 4ScienceA 4SocialB-1 4SocialB-2	★ <i>Scanner</i> 5LA	★ <i>Digital Camera</i> 6ScienceD
	2.4	use appropriate keyboarding techniques for the alphabetic and punctuation keys	<i>On-going</i>		



Processes for Productivity					
GO #	SO#	Specific Outcome	Gr. 4	Gr. 5	Gr. 6
P1	Students will compose, revise and edit text.				
	2.1	create and revise original text to communicate and demonstrate understanding of forms and techniques	★ 4LA	5LA	6LA-1 6LA-2 6ScienceD
	2.2	edit and format text to clarify and enhance meaning, using such word processing features as the thesaurus, find/change, text alignment, font size and font style	★ <i>Font size</i> <i>Font style</i> <i>Spell check</i> 4LA	★ <i>Text alignment</i> 5LA	★ <i>Find/change;</i> <i>Thesaurus</i> 6LA-1 6LA-2 6ScienceD
	2.3	convert digital text files by opening and saving them as different file types			★ 6ScienceD
P2	Students will organize and manipulate data.				
	2.1	enter and manipulate data by using such tools as spreadsheets or databases for a specific purpose			★ 6Math
	2.2	display data electronically through graphs and charts	★ 4Math		6SocialA
P3	Students will communicate through multimedia.				
	2.1	create a multimedia presentation, incorporating such features as visual images (clip art, video clips), sounds (live recordings, sound clips) and animated images, appropriate to a variety of audiences and purposes			★ 6LA-3
	2.2	access available databases for images to support communication	★ 4Math		6LA-1
P4	Students will integrate various applications.				
	2.1	integrate a spreadsheet, or graphs generated by a spreadsheet, into a text document			★ 6Math
	2.2	vary font size and font style, and placement of text and graphics, in order to create a certain visual effect	★ 4ScienceA		6LA-1 6LA-2 6ScienceD
P5	Students will navigate and create hyperlinked resources.				
	2.1	create and navigate a multiple-link document		★ 5SocialA	6SocialA
	2.2	navigate through a document that contains links to locate, copy and then paste data in a new file		★ 5LA	6SocialA
	2.3	navigate the Internet with appropriate software	<i>On-going</i>		
P6	Students will use communication technology to interact with others.				
	2.1	select and use the technology appropriate to a given communication situation		★ 5SocialA	6LA-3

