York Public School Instructional Technology Curriculum Matrix

Keyboarding Course – Gr.6

Keyboarding Course – Gr.7

Keyboarding Course – Gr.8

Keyboarding Course – Gr.8

Computer Studies II

Computer Languages

Webpage Design

Core Curriculum Glasses

1.0	Paris Consentium and Consents																
1.0	Basic Operations and Concepts	,							,				7				
1.1	General Computer Knowledge	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
1.1.1	Identify simple computer parts using correct terms	D	М	Α													1
1.1.2	(e.g. mouse, keyboard, monitor, disk, printer) Turn the computer on and off	D	М	Α													
1.1.3	Log into and out of the network using name and																
1.1.5	password.	D	М	Α													1
1.1.4	Launch new programs	D	М	Α													Α
1.1.5	Open a new or saved document	D	М	Α													
1.1.6	Update the window scroll bar to effectively move	D	М	Α													
	through the application screen.		141	^													
1.1.7	Save files to proper locations using "save" and "save		D	м	Α												1
440	as"																—
1.1.8	Chose printer Print Document		ļ	D	M	A											—
1.1.9				D	M D	A M	Α										
1.1.11	Organize the files into folders Use the troubleshooting process (e.g. identify				U	IVI	А										
1.1.11	problem, check obvious, note error messages, seek				D	м	Α										1
	assistance)				_	""	, ,										1
1.2	Keyboarding Strategies	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
1.2.1	Hold and position the mouse	D	М	Α													
1.2.2	Use proper keyboard position (e.g. hand orientation,			D	М	Α											
	space bar, hub key, shift, return)]			.41	^											1
1.2.3	Keyboard at 15 wpm (words per minute) with 93%	1			D	D	М		Α				1				i
	accuracy	 	ļ		ļ -								 				—
1.2.4	Keyboard at 25 wpm (words per minute) with 93%	1								D	М		м				Α
125	Accuracy Keyboard at 30, 40 yran with 039/ accuracy or 40 yran		-		-												
1.2.5	Keyboard at 30-40 wpm with 93% accuracy or 40wpm with 90% accuracy													М	М		Α
1.3	Multimedia Resource Knowledge	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
1.3.1	Use multimedia resources (e.g. interactive books,					1			-	ı	Π		3 12	7 12	10 12	10 12	3 11
1.5.1	educational software, multimedia encyclopedias)	D	М	Α													1
1.4	Computer Programming Languages	К	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
1.4.1	Demonstrate competency in computer programming													D	М	М	
	(e.g. C++)													U	IVI	IVI	
2.0	Social, Ethical, and Human Issues												_				
2.1	Social	к	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
2.1.1	Work cooperatively and collaboratively with peers,																
	family members, and others when using technology in								M	Α	Α						1
	the classroom.																1
2.2	Ethics	К	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
2.2.1	Use common network courtesies (e.g., logging in using																
	own name and password, respecting other students'								Α	Α	Α						1
	works)																1
2.2.2	Read and follow district guidelines and consequences																1
	of misuse (e.g., access appropriate web sites, report																1
	improper use, protect personal information, honor								D	м	А			м			1
	privacy of others, utilize network resources for								_								1
	appropriate educational activities)																1
2.2.3	Observe copyright laws and responsibilities (e.g., cite																
2.2.3	sources, obtain permission to use others' works to									D	м		D	М			1
	refrain from plagiarism)																1
2.3	Human Issues	К	1	2	3	4	5		6				0.13	0.13	10-12	10-12	9-12
		K	1	2	3	4	3			7	8 A		9-12 N/I	9-12	10-12	10-12	9-12
2.3.1	Use technology to promote curiosity and learning		 		 	 			М	Α	Α		М	М			—
2.3.2	Explore uses of technology in workplace and society	1								_	١		۱	۱			i
	(e.g., advantages and disadvantages of relying on	1								D	М		М	М			i
	technology)	 	 		 												—
2.3.3	Make informed choices regarding technology	1								ا ـ	_		l	l			i
	resources (e.g., be aware of ethical and social issues	1								D	D		М	М			i
	relating to technology)]															1
2.3.4	Explore technology related career choices									D	D			М			<u> </u>
3.0	Technology Productivity Tools																
3.1	Word Processing	к	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
3.1.1	Enter and delete text	D	М	Α									М				Α
3.1.3	Apply editing techniques (e.g., spell check, thesaurus,			_													
	fin/chang, copy/cut/paste)			D	М	Α							М				Α
3.1.4	Apply advanced editing techniques (e.g., spell check,									<u> </u>							· .
	thesaurus, find/change, copy/cut/paste)	1					D		М	Α			М				Α
3.1.5	Apply formatting techniques (e.g., alignment, tabs,	1	1		1	1							1				Α
	fonts, styles, spacing)	1		D	М	Α							М				i 1
				<u> </u>		ı		L		ı	ı	<u> </u>					

Instr	uctional Technology Curriculum	Mat	r1X														
-	D=Developed								10	_	m						
	M=Mastered								Keyboarding Course – Gr.6	- Gr.7	Keyboarding Course – Gr.8						ses
	A=Applied								ırse -	Keyboarding Course –	ırse -		- S	= =	ages		Core Curriculum Classes
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									/boa	/boa	/boa		Computer Studies I	Computer Studies II	Computer Languages	Webpage Design	e C
									Ke	Ke	Ke		Ŝ	Ō	Ŝ	×	Š
3.1.6	Apply advanced formatting techniques (e.g.,						D		М	А			М				Α
3.1.7	alignment, tabs, fonts, styles, spacing) Manipulate text layout and design for newsletter,																
3.1./	magazine, flyer or presentation layouts												М	М			Α
3.2	Graphics	К	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
3.2.1	Use painting and drawing tools (e.g., text, line, shapes,	D	М	Α									D	М			
3.2.2	eraser, brush, spray can, paint bucket) Use advance painting and drawing tools (e.g., text line,																
	shapes, eraser, brush, spay can, paint bucket, rotate,					D	М		А				D	М			
	resize, gradients)																
3.2.3	Insert original or commercial clip art into documents/projects			D	М	Α							М	М			
3.2.4	Insert clip art from a variety of sources into																
	documents/projects (e.g., CD, Internet, camera,									D	М		М	М	М	Α	Α
2.2.5	scanner)			_													
3.2.5	Edit and manipulate graphics (e.g., move, resize) Edit and manipulate graphics (e.g., cropping, rotating,			D	М	Α							М	М	М	М	Α
3.2.0	changing file size)												М	М	М	М	Α
3.2.7	Capture digital images and insert into document (e.g.,					D	М		А					м			
3.2.8	pictures, scanned images) Capture digital images and insert into document (e.g.,																
3.2.0	pictures, scanned images, video footage)										D		М	М	М	М	Α
3.2.9	Superimpose images (e.g., matching size, colors,												D	м			
2.2.10	shading)																
3.2.10	Develop animated .gifs (e.g., digital camera images, scanned images)												D	М			
3.2.11	Create two dimensional animations (e.g., scripted													м			
	scenes, navigational buttons)													IVI			
3.2.12	Create interactive two-dimensional animations (e.g., scripted scenes, navigational buttons)													М			
3.3	Multimedia	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
3.3.1	Develop a graphic organizer (e.g., Inspiration,			D	М	Α							D	М			
3.3.2	storyboard) for multimedia production Create developmentally appropriate multimedia																
3.3.2	projects			D	М	Α								М			
3.3.3	Incorporate multiple components into multimedia																
	projects (e.g., text, graphics, sound, drawing, transitions, buttons)			D	М	Α								М			
3.3.4	Use advanced multimedia techniques (e.g.,																
	animations, new button actions, web links)					D	М		Α					М			
3.4	Web Programming	К	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
3.4.1	Develop a graphic organizer (e.g., Inspiration, storyboard) for web production					D	М		Α								
3.4.2	Create a web page using text, graphics, links														М	М	
3.4.3	Use advanced web design techniques (e.g.,																
	animations, anchors, tables, frames, viewing source/document/information files)														М	М	
3.4.4	Demonstrate Java scripting														D		
3.5	Desktop Video Production	К	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
3.5.1	Demonstrate appropriate care of video production						D		D	D				М			
3.5.2	equipment (e.g., cameras, cables, computers) Identify video production equipment parts (e.g.,		-	-	-	-		-				-	-				
	cameras, connections, audio equipment, tripods,						D		D	D				М			
	lights)																
3.5.3	Storyboard video collaboratively with peers Use video filmed by others to develop productions		-	-	-	-	D D	-	D D	M		-	-	M			
3.5.5	Film quality video footage						D		D	M				M			
3.5.6	Film quality video footage using advance techniques												t				
	(e.g., video mixing, mobile vide, aligning video to													М			
3.5.7	genre, chroma keying) Import video into computer		-	-	-	-	D	-	D	М		-	-	М			
3.5.8	Import video into computer using advanced						Ť		ا ا								
	techniques (e.g., time, code/batch, capturing)													М			
3.5.9 3.5.10	Edit video footage adding effects (e.g., sound, text)						D		D	М				М			
3.3.10	Edit video footage adding effects using advanced techniques (e.g., multiple video sources, overlaying													М			
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-	uctional Technology Curriculum	TATAL	117														
	D=Developed M=Mastered A=Applied								Keyboarding Course – Gr.6	Keyboarding Course – Gr.7	Keyboarding Course – Gr.8		Computer Studies I	Computer Studies II	Computer Languages	Webpage Design	Core Curriculum Classes
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																	J
	video using chroma key, adding animations)M																
3.5.11	Print to video (QuickTime)									D	М						
3.5.12	Print to CD									D	М						
3.5.13	Print to DVD										D						
3.6	Database	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
3.6.1	Define database fields Enter and sort information						D D		M	A			M				
3.6.3	Use advanced database sorting techniques (e.g., <, =,								IVI								
	begins with, contains												М				
3.6.4	Print database report						D		М	Α			М				
3.6.5	Format and print advanced database layouts (e.g.,												М				
2.5.5	labels, customized reports)																
3.6.6	Merge database information into other application documents (e.g., word processing, web page)												М				
3.7	Spreadsheet	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
3.7.1	Enter and sort information into a spreadsheet		1	1			D		M	Α			М				
3.7.2	Create simple graphs (e.g., bar, pie, circle, line)						D		М	Α			М				
3.7.3	Use advanced graph formatting techniques (e.g., step size, 3-dimensional, color, shading, labeling)								D	м	А		м				
3.7.4	Demonstrate basic spreadsheet functions (e.g., +, -, *,								D	м	Α		м				
3.7.5	/, and average) Demonstrate advance spreadsheet functions and																
	formulas (e.g., COUNT, IF, LOOKUP, NOW, NPER, NPMT)												М				
3.7.6	Use advanced spreadsheet formatting (e.g., font, alignment, line, shade, color, dimension)												М				
3.7.7	Merge spreadsheet information into other application documents (e.g., word processing, web page)												М				
3.8	Integrated Applications	К	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
3.8.1	Use advanced features (e.g., merge, sort, filter, link,								_							<u> </u>	
	embed) of application software)																
3.9	Peripheral Devices	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
3.9.1	Use hand-held digital device for collection with classes or small groups (e.g., Proscopes, Flip Cams, iPods, science probes for temperature, light, sound collection)				D	м	А							D			
3.9.2	Use hand-held digital device for data collection individually or in small groups (e.g., Proscopes, Flip Cams, iPods, science probes for temperature, light,				D					А				D			
	sound collection																
4.0	Communications/Collaboration								,								
4.1	Email	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
4.1.1	Access account, retrieve, compose, send, and reply to messages using class accounts					D			Α				Α	М	М		
4.1.2	Access account, retrieve, compose, send and reply to messages using individual accounts.									D	М		Α	М	М	М	Α
4.1.3	Manage email messages (e.g. deleting, saving and organizing)									D	М		Α	М	М	М	А
4.1.4	Use advanced email features (e. g postpone, edit, forward, carbon copy, multiple recipients,									D	м		А	м	м	м	А
	attachments)												<u> </u>	<u> </u>	<u> </u>		<u> </u>
4.1.5	Print Message	-	-	-			-			D D	M	-	Α	M	M	M	Α
4.1.6	Create an address book Telecommunication/Collaborations	K	1	2	3	4	5		6	7	M 8		A 9-12	9-12	M 10-12	M 10-12	9-12
4.2.1	Participate in online discussions (e. g real-time chats,						D						3 12	M	2012		A
4.2.2	bulletin boards, iSight cameras) Participate in desktop video conferencing (e.g. iSight					-			_					<u> </u>			
	cameras)					D	М		A								A
4.3	Presentation Skills	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
4.3.1	Format presentation using appropriate text and images (e. g text consists of main ideas, images enhance text, sounds and transitions support text)				D	М	A						D	М			А
4.3.2	Use effective oral communication skills (e. g speak loudly, clearly; use gestures; maintain eye contact; use				D	м	А						D	м			А
4.3.3	technology only as reference point) Align graphics, text, and sound with content					D	М					-	D				A
٠.٠.٥	rango graphics, text, and sound with content	1	1	1	1	<i>ر</i> ا	1 141	I	l		1	1		l	l		_ ^

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4.3.4	Choose appropriate software for task (e. g iMovie or presentation, multimedia, or web design software)									D	М			М		М	Α
4.3.5	Demonstrate advanced formatting skills using																
	appropriate text and images (e. g text consists of main idea, images enhance text, sounds and transitions support text) to develop a presentation					D	М						М	М		М	А
5.0	Research	1							1				1				
5.1	Web Research	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
5.1.1	Access teacher identified web sites		1	D	М	Α						1		M			
5.1.2	Maneuver within web-based resources (e.g., navigate, use links, forward, back)			D	М	Α								M			
5.1.3	Enter address/URL				D	М	Α							М			
5.1.4	Bookmark web sites				D	M	A							M			
5.2	Electronic Resources	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
5.2.1	Complete online card catalog searches by keyword, subject, title, and author			D	М	А											
5.2.2	Search the card catalog using strategies such as Boolean logic, +, -								D	М	Α						
5.2.3	Complete online search strategies by keyword to access information			D	М	Α											
5.2.4	Complete advanced online search strategies to access information (e.g., Boolean logic, +, -, ?, "", *)								D	М	Α						
5.2.5	Find relevant information in resources			D	М	Α											
5.2.6	Transfer relevant information resources (i.e., Inspiration, graphic organizers, note cards, word processing, etc)			D	м	А											
5.2.7	Use electronic tool to take notes from electronic research								D	М	Α						
5.3	Evaluation	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
5.3.1	Recognize the significance of the URL address (.com, .org, .gov, .net, .edu)						D		М	Α							
5.3.2	Assess web sites for relevance and validity						D		М	Α							
5.3.3	Determine and prioritize appropriate electronic resources						D		М	А							
5.4	Documentation	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
5.4.1	Cite sources using an appropriate format for grade level and/or curriculum area												М	М	М	М	Α
6.0	Problem-Solving and Decision-Making																
6.1	Selection of Appropriate Tools	К	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
6.1.1	Determine which technology is most suited to the																
	specific task or problem (e.g. word processor,					D	М		А				М	М		А	А
	database, spreadsheet, multimedia tools, graphic								^				.*"			^	"
	organizer)																
6.2	Media Literacy	K	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
6.2.1	Differentiate between fact and opinion				D	М	Α										Α
6.2.2	Recognize Propaganda and presence of bias and prejudice								D	М	А						Α
6.3	Application of Research Results	К	1	2	3	4	5		6	7	8		9-12	9-12	10-12	10-12	9-12
6.3.1	Analyze resources in terms of date, author, source, and point of view								D	м	А						А
622	· · · · · · · · · · · · · · · · · · ·		-	D	М	_		-				-					_
6.3.2	Interpret and summarize information		<u> </u>	D	M	A						<u> </u>					A
6.3.4	Draw conclusion utilizing data Develop products indicating results of research (e.g.		1	٥	ivi	A						1					м
0.5.4	simulation, report, presentation, model)			D	М	Α							<u> </u>		<u> </u>		Α