

Amherst Central School District
2nd Grade Technology Benchmarks (related to the NETS-s)

Content Standards At the completion of the 2nd Grade students will be able to:	NETS 2007	CCLS: Reading	CCLS: Writing	CCLS: Speaking/ Listening	CCLS: Language
a. Manipulate and/or create graphic organizers (e.g., Word, Google Docs, T-Charts, Venn Diagrams)	1		W#6		
b. Understand/ use drop down menus and formatting tool bars	1				
c. Use word processing and formatting tools, insert pictures to create original work	1		W#6		
d. Save documents and adjust print settings	1				
e. Use interactive stories , videos, simulations, and developmentally appropriate programs to explore multimedia communication (e.g., PhotoStory, MovieMaker, Podcast, Prezi, Glogster)	1,2	R-L#11	W#6	SL#5	
f. Create simple documents using publishing templates at an introductory level	1		W#6 W#7		
g. Use telecommunications to communicate and participate in learning activities through electronic means (e.g., videoconferencing, e-mail, etc.)	2		W#6	SL#5	
h. Use various domain names and file naming protocols (e.g., .doc versus .com)	2				
i. Create, edit, and organize bookmarks, favorites, and folders at the introductory level	2				
j. Create original works using digital tools (e.g., a poem using Read Write Think template)	2		W#6	SL#2 SL#5	
k. Use content specific tools to support learning and participate in research (e.g., PebbleGo, Explorpedia, CultureGrams)	3		W#7		L#4e

READING				WRITING		SPEAKING AND LISTENING		LANGUAGE	
R-L	for Literature	R-IT	for Informational Text	W	For Literacy	SL	Speaking and listening	L	Language
R-L/SS	for Literacy in History/ Social Studies	R-FS	Foundational Skills	W-L/SS/ScT	For Literacy in History/Social Studies/Science and Technical Subjects				
R-L/ScT	for Literacy in Science and Technical Subjects								

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l. Understand what the internet is and how it has impacted people	3,4				
m. Use the internet to complete a search for a given subject	3		W#7		
n. Select, use, and recognize appropriate sources for research from a teacher created list	4		W#7		L#4e
o. Evaluate, publish, and communicate data results	4		W#7		
p. Demonstrate positive social and ethical behaviors when using technology (e.g., Digital Citizenship)	5	R-L#11			
q. Practice responsible use of technology systems and software	5				
r. Use input devices (e.g. mouse, keyboard) and output devices (e.g. monitor, printer) to successfully operate computers, and other technologies	6				
s. Communicate about technology using developmentally appropriate and accurate terminology	6				

READING				WRITING		SPEAKING AND LISTENING		LANGUAGE	
R-L	for Literature	R-IT	for Informational Text	W	For Literacy	SL	Speaking and listening	L	Language
R-L/SS	for Literacy in History/ Social Studies	R-FS	Foundational Skills	W-L/SS/ScT	For Literacy in History/Social Studies/Science and Technical Subjects				
R-L/ScT	for Literacy in Science and Technical Subjects								

8/15/2011

Amherst Central School District
5th Grade Technology Benchmarks (related to the NETS-s)

Content Standards At the completion of the 5th Grade students will be able to:	NETS 2007	CCLS: Reading	CCLS: Writing	CCLS: Speaking/ Listening	CCLS: Language
a. Use desktop publishing to design and create a product combining text and graphical elements (e.g. newspaper, brochure, poster, menu, work of art, graphic organizers, and websites)	1		W#2a W#4a W#6		
b. Use word processing skills (e.g., create paragraphs, documents, charts, tables, insert pictures and adjust print settings)	1		W#2a W#4a	SL#5	
c. Use interactive stories, videos, and developmentally appropriate programs.	1	R-IT#7	W#6	SL#5	
d. Use Multimedia to create presentations, slideshows and use presentation settings	1,2			SL#5	
e. Use technology tools for independent and collaborative writing, communication, and publishing (e.g., multimedia authoring, presentation, Web tools, digital cameras, scanners)	2		W#2a	SL#5	
f. Use digital resources to locate and collect info or data related to course specific content (e.g., World Book Online, Grolier, Culture Grams)	3	R-IT#7	W#7		L#4c
g. Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources	3				
h. Develop an understanding of technology and its interaction between the environment and the way people live and work.(e.g., e-mail, reduction of paper use, impact of employment)	4				
i. Use developmentally appropriate software to organize and interpret data, to conduct research and communicate results. (e.g. charts, graphic organizers, tables, timelines)	4		W#8	SL#5	
j. Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use (e.g., plagiarism, copyright, Digital Citizenship)	5				

READING				WRITING		SPEAKING AND LISTENING		LANGUAGE	
R-L	for Literature	R-IT	for Informational Text	W	For Literacy	SL	Speaking and listening	L	Language
R-L/SS	for Literacy in History/ Social Studies	R-FS	Foundational Skills	W-L/SS/ScT	For Literacy in History/Social Studies/Science and Technical Subjects				
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5th Grade Technology Benchmarks (related to the NETS-s)

k. Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide	5,6				
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READING				WRITING		SPEAKING AND LISTENING		LANGUAGE	
R-L	for Literature	R-IT	for Informational Text	W	For Literacy	SL	Speaking and listening	L	Language
R-L/SS	for Literacy in History/Social Studies	R-FS	Foundational Skills	W-L/SS/ScT	For Literacy in History/Social Studies/Science and Technical Subjects				
R-L/ScT	for Literacy in Science and Technical Subjects								

Amherst Central School District
8th Grade Technology Benchmarks (related to the NETS-s)

Content Standards At the completion of the 8th Grade students will be able to:	NETS 2007	CCLS: Reading	CCLS: Writing	CCLS: Speaking/ Listening	CCLS: Language
a. Use desktop publishing to design and create a product combining text and graphical elements (e.g., newspaper, brochure, poster, menu, work of art, graphic organizers, and websites)	1	R-IT#7 R-L/SS#7 R-L/Sc/T#7	W#2a W#6 W#8 W#11 W-SS/Sc/T#6	SL#5 SL#6	L#2 L#3 L#4 L#6
b. Create complex documents using publishing templates (e.g., letterhead, fliers, business cards, etc.)	1	R-IT#7 R-L/SS#7 R-L/Sc/T#7	W#2a W#6 W#11 W-SS/Sc/T#6	SL#5 SL#6	L#2 L#3 L#4 L#6
c. Independently design, publish, and present using Web 2.0 tools (e.g., podcasts, Glogster, Prezi etc.)	1	R-IT#7 R-L/SS#7 R-L/Sc/T#7	W#2a W#11 W-SS/Sc/T#6 W-SS/Sc/T#6	SL#5 SL#6	L#2 L#3 L#4 L#6
d. Recognize and/or apply appropriate file naming protocols (e.g. .doc, .xls, .ppt, .jpg)	2, 6			SL#2	
e. Recognize different Internet browsers and use their features (e.g., bookmarks, favorites, address bar, navigation, and add-ons)	2, 3, 6		W#1b		
f. Use content-specific tools, software, and simulations to support learning and research (e.g., environmental probes, graphing calculators, exploratory environments, Web tools)	2,3, 6	R-IT#7 R-L/SS#7 R-L/Sc/T#7 R-L/Sc/T#9	W#6 W#7 W#8 W-SS/Sc/T#6 W-SS/Sc/T#8	SL#2	

READING				WRITING		SPEAKING AND LISTENING		LANGUAGE	
R-L	for Literature	R-IT	for Informational Text	W	For Literacy	SL	Speaking and listening	L	Language
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8th Grade Technology Benchmarks (related to the NETS-s)

g. Collaborate with peers, experts, and others using telecommunications and collaborative tools, to investigate and develop solutions to problems and/or issues (e.g., environmental, social issues, and current events)	2,4	R-IT#7 R-L/SS#7 R-L/Sc/T#7	W#7 W#8 W-SS/Sc/T#8	SL#2 SL#6	L#2 L#3 L#4 L#6
h. Recognize various domain names and differentiate between internet browsers and their appropriateness (e.g., .net, .org, .edu, .mil, .com, Firefox, Google Chrome, Internet Explorer)	3, 6			SL#2	
i. Demonstrate an understanding of concepts underlying hardware, software, and connectivity and of practical applications to learning and problem solving (e.g., file size and storage, components of keyboard, proper log on and off, and restart to correct problems)	4,6				
j. Demonstrate knowledge of current changes in information technologies and the effect those changes have on the workplace and society (e.g., use different browsers, try a different application if something is not working)	5	R-IT#7 R-L/SS#7 R-L/Sc/T#7	W#1b		
k. Participate appropriately by complying with Acceptable Use Policies in an educational virtual community (e.g., Edmodo, Moodle)	5		W-SS/Sc/T#8		
l. Identify the impact technology has on home, school, and worldwide community (e.g., Digital Citizenship, online banking)	5	R-IT#7 R-L/SS#7 R-L/Sc/T#7	W#1b		
m. Understand the impact of creating a positive digital footprint when engaging with interactive technologies (e.g., posting appropriate images and text online)	5		W#6	SL#6	
n. Identify cyber bullying and develop strategies for responding to uncomfortable situations(e.g., how to report to Web site admin and adults)	5				
o. Use technology to communicate safely (e.g., text messaging, e-mail, social networking sites, predator awareness, appropriate online relationships)	5	R-L/Sc/T#9	W#6 W-SS/Sc/T#6	SL#6	L#2 L#3 L#4 L#6

READING				WRITING		SPEAKING AND LISTENING		LANGUAGE	
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p. Cite sources appropriately to uphold copyright law (e.g., NoodleBib, End Note, etc)	5		W#1b W-SS/Sc/T#8		L#2 L#3 L#4 L#6
q. Define plagiarism and identify the negative consequences (e.g., Do not present others' work as your own)	5		W-SS/Sc/T#8		

READING				WRITING		SPEAKING AND LISTENING		LANGUAGE	
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Amherst Central School District
12th Grade Technology Benchmarks (related to the NETS-s)

Content Standards At the completion of the 12 th Grade students will be able to:	NETS 2007	CCLS: Reading	CCLS: Writing	CCLS: Speaking/ Listening	CCLS: Language
a. Collaborate with peers, experts, and others to contribute to related content by using technology to compile, synthesize, produce, disseminate information, and other creative works (e.g., blog, wiki, Web site)	1, 2, 3	R-IT#1 R-IT#7 R-L/SS#7 R-L/ScT#7	W#6 W#8 W-SS/ScT#2a W-SS/ScT#6 W-SS/ScT#8	SL#2 SL#5	L#1 L#2 L#4c L#6
b. Use technology tools and resources for managing and communicating personal/professional information (e.g., finances, schedules, addresses, purchases, correspondence)	1, 2, 3, 4		W#6 W#8 W-SS/ScT#2a W-SS/ScT#6 W-SS/ScT#8	SL#2 SL#5	L#1 L#2 L#4c L#6
c. Select and use online informational resources to meet needs for collaboration, research, publications, communications, and productivity (e.g., Novel, Gale, World Book, NoodleTools)	1, 2, 3, 4, 5, 6	R-IT#1 R-IT#7 R-L/SS#7 R-L/ScT#7	W#6 W#8	SL#5	L#1 L#2 L#4c L#6
d. Understand technology-based options (e.g., Internet courses, Internet videoconferences and lifelong learning)	2, 5	R-IT#7 R-L/SS#7 R-L/ScT#7	W#8	SL#2	
e. Select and apply technology tools for research, information analysis, problem solving, and decision-making in content learning to present knowledge gained (e.g., multimedia presentation)	3, 4, 5	R-L/SS#7 R-L/ScT#7	W#6 W#8 W-SS/ScT#2a W-SS/ScT#6 W-SS/ScT#8	SL#5	L#1 L#2 L#4c L#6

READING				WRITING		SPEAKING AND LISTENING		LANGUAGE	
R-L	for Literature	R-IT	for Informational Text	W	For Literacy	SL	Speaking and listening	L	Language
R-L/SS	for Literacy in History/ Social Studies	R-FS	Foundational Skills	W-L/SS/ScT	For Literacy in History/Social Studies/Science and Technical Subjects				
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f. Make informed choices among technology systems, resources, and services (e.g., Google Search vs. World Book, purchasing of a Mac vs. PC)	3, 5, 6		W#8 W-SS/ScT#8	SL#5	L#1 L#2 L#4c L#6
g. Apply computer software systems and simulations that apply to real-world situations (e.g., virtual dissection, Discovery Education, Investigations)	3, 5, 6	R-IT#7 R-L/SS#7 R-L/ScT#7	W#6 W-SS/ScT#2a W-SS/ScT#6 W-SS/ScT#8	SL#5	
h. Demonstrate and advocate for legal and ethical behaviors among peers, family, and community regarding the use of technology and information (e.g., Digital Citizenship)	5		W#8 W-SS/ScT#8	SL#5	
i. Analyze advantages and disadvantages of widespread use and reliance on technology in the workplace and in society as a whole (e.g., What is your plan if the technology fails?)	5, 6		W#6 W#8	SL#2 SL#5	
j. Identify and evaluate the capabilities and limitations of emerging technology resources to address personal, lifelong learning, and workplace needs (e.g., alternate browsers, applications, tools)	6	R-IT#7 R-L/SS#7 R-L/ScT#7	W#6 W-SS/ScT#2a W-SS/ScT#6 W-SS/ScT#8	SL#2 SL#5	L#1 L#2 L#4c L#6

READING				WRITING		SPEAKING AND LISTENING		LANGUAGE	
R-L	for Literature	R-IT	for Informational Text	W	For Literacy	SL	Speaking and listening	L	Language
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