SAU 16

K-5 Technology Scope and Sequence June 2011

For information on 21st Century Skills refer to the Partnership for 21st Century Skills website. (*p21.org*)

21st Century Skills include:

- Communication
- Creativity
- Collaboration
- Critical Thinking
- Citizenship

P (preview) = a brief overview showing how/when skill is used

I (introduce) = skill is used with direct support

D (develop) = skill is used with some support

M (mastery) = skill is used independently

** Denotes 21st Century Skill

1. Creativity and Innovation	K	1	2	3	4	5
a. Applies existing knowledge to generate new ideas, products or processes **	P/I	I	D	D	M	М
b. Creates original work as means of personal or group expression **	P/I	I	D	D	M	М
c. Explores STEM (Science, Technology, Engineering, Math) career options **	Р	Р		I	D	D
d. Connects Science, Math, Engineering skills to Technology **	Р	Р		I	D	D
e. Is aware of new digital technologies (including hand-held devices)			Р	Р	Р	Р
Word Processing and Presentation Software						
f. Formats a document, paragraph		Р		D	M	М
g. Opens/saves/prints	Р	I	D	D	M	М
h. Inserts and edits text, undo/redo	Р	I	D	D	M	М
i. Selects text and formats with font options		I		D	M	М
j. Cuts/copies/pastes with in document			Р	I	D	М
k. Inserts transitions and other effects in presentation			Р	I	I	D
Uses spell check and thesaurus		Р	Р	I	D	D/M
m. Adds graphics, backgrounds, word art and clip art		Р	Р	I	D	D
n. Uses headers and footers				Р	I	D
o. Inserts tables and create lists				Р	I	
p. Creates a slide show	Р	Р		D	D/M	М
q. Creates and modify text objects	Р	Р		D	D	М
r. Follows copyright rules when using images from the internet		Р		D	D	D
s. Works with others to create a project			Р	I	D	D
t. Is aware of spreadsheet applications			Р		D	D
u. Uses basic tools in a photo editing program		Р	Р	I	D	D
v. Uses video editing program to create a movie		Р	Р	I	l l	D
w. Uses audio editing program to create an audio clip		Р	Р	I	ı	D

2. Communication and Collaboration	K	1	2	3	4	5
a. Respects the work of others **	P/I	I	D	D	M	М
b. Works as part of a cooperative group with technology **	P/I	I	I	1	D	D
c. Communicates effectively using different presentation media **	P/I	I	I	I	D	D
d. Understands others by engaging with other learners **		Р	I	I	D	D
e. Collaborates, publishes and shares with others through Web 2.0 tools **	Р	Р			D	D
f. Uses Web 2.0 tools to create a learning community **	Р	Р			D	D
g. Is a technology mentor to peers **	Р	Р	I	D	D	D/M
h. Understands and adheres to rules of internet safety **		Р		D	D	D/M
i. Understands and uses Web 2.0 tools properly **		Р	Р	I	D	D
3. Research and Informational Fluency	K	1	2	3	4	5
a. Uses the internet for basic research of various subject matter **		Р	I	D	D	D
b. Uses advanced searches with search engines and for research			Р	P/I	D	D
c. Understands and adheres to copyright laws **			Р	I	D	D
d. Use pre-planning strategies to guide inquiry **			Р	I	D	D
e. Applies reading strategies of online resources			Р	I	D	D
f. Chooses and organizes information from a variety of sources **			Р	I	I	D
g. Recognizes the purpose of domain names including .gov, .edu, .org, .com			Р	I	D	М
h. Understands and apply research results **			Р	I	D	D
4. Critical Thinking, Problem Solving, Decision	K	1	2	3	4	5
Making						
a. Uses technology to identify and define real world problems **			Р	I	D	D
b. Plans activities to develop a solution **			Р	I	D	D
c. Collects and analyzes data to make decisions **			Р		D	D
e. Uses mapping software or application to brainstorm **	Р	Р	I	D	D	M

G. Technology Operations and Concepts A. Exhibits responsible care of resources and equipment B. Uses appropriate computer and networking terms C. Is aware of basic operation of computer systems, including browser use B. Technology Operation of computer systems, including browser use B. Technology Operation of computer systems, including browser use B. Technology Operation of computer systems, including browser use B. Technology Operation of computer systems, including browser use B. Technology Operation of computer systems, including browser use B. Technology Operation of computer systems, including browser use B. Technology Operation Operation of computer systems, including browser use B. Technology Operation Opera	5. Digital Citizenship	K	1	2	3	4	5
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