

EPHRATA AREA SCHOOL DISTRICT
K-12 INFORMATION LITERACY & TECHNOLOGY SKILLS CURRICULUM
SCOPE AND SEQUENCE

EPHRATA ELEMENTARY SCHOOL LIBRARIES
INFORMATION LITERACY & TECHNOLOGY SKILLS CURRICULUM
SCOPE AND SEQUENCE

CURRICULUM OBJECTIVES	K	1	2	3	4	5	PA RWSL Standards PA Science and Technology Standards PA Anchor Assessments	Essential Questions
<i>Task Definition</i>							1.8A R5.A.2	
TD1. Identify that information is needed			I	I/R	X			What do I need to know?
TD2. Select topics related to an information need			I	I/R	X			What do I want learn about?
TD3. Generate questions related to a topic			I	I/R	R	X		What do I want learn about my topic?
TD4. Making connections to prior knowledge	I	I	I	R	R	M	1.1A 3.7 C, D, E	What do I already know about my topic?
<i>Information Seeking Strategies</i>								
ISS1. Identify possible types of information resources, including:							1.8B R5.A.2, R5.A.2.1 3.7 C, D, E	What resources can I use?
• Nonfiction books	I	I/R	R	X				
• General encyclopedias				I	R	X		

CURRICULUM OBJECTIVES	K	1	2	3	4	5	PA RWSL Standards PA Science and Technology Standards PA Anchor Assessments	Essential Questions
•Specialized reference sources				I	I	R		
•Almanacs					I	I/R		
•Atlases and other geographical sources				I	R	R		
•Biographical resources		I	I	I/R	R	X		
•General dictionary				I	R	X		
•Periodical articles			I	I/R	R	R		
•People and places (phone book)				I	R	R		
•Multimedia Sources (audio, video, graphic)		I	I	R	R	R	1.8B, C	
•Electronic resources, including Internet and POWER Library and subscription databases			I	I/R	R	R	1.6F	
ISS2. Discuss and select most appropriate resources				I	R	R	1.2B, 1.8B 3.7 C, D, E	Which resources will best answer my question?
ISS3. Recognizes the safety and privacy issues relevant to Internet resources.		I	I	I/R	I/R	R	1.6F, 1.8B 3.7 C, E	What is a safe Internet site?
ISS4. Identify key words related to the topic				I	R	R	1.1.5F R5.A.2	What keywords are relevant to my topic?
ISS5. Discuss the copyright date to determine how current the information is				I	R	R	1.8B	What is a copyright date? Why are copyright dates important?
ISS6. Use subject searching to find information			I	I	R	R	1.1.5F R5.A.2	What is subject searching?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	K	1	2	3	4	5	PA RWSL Standards PA Science and Technology Standards PA Anchor Assessments	Essential Questions
ISS7. Use keyword searching to find information				I	I	R	1.1.5F R5.A.2	What is keyword searching?
ISS8. Use Boolean logic as a search strategy when necessary.						I	1.8B	What is Boolean Logic? When should I use Boolean Logic in my search?
Location and Access								
LA1. Locate and access information from a variety of media, including:							1.1B, 1.8B, 1.6F R5.A.2.2	Where are these resources located? How do I get the information I need from these resources?
<ul style="list-style-type: none"> Online catalog 				I	R	X	1.2.5B 1.8B	
<ul style="list-style-type: none"> Books (table of contents, glossary, and index) 			I	I/R	R	X	1.1.5B	
<ul style="list-style-type: none"> Software (CD/DVD) 		I	I	I/R	R	X		
<ul style="list-style-type: none"> Preselected/Internet sites 			I	I	I/R	R	1.6F 1.8B	
<ul style="list-style-type: none"> Subscription Databases 			I	I	I/R	R	1.8B	
LA2. Use keywords and guide words				I	I/R	R	1.1.5F R5.A.2	What is a keyword? What is a guide word? How do I use them to find my information?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	K	1	2	3	4	5	PA RWSL Standards PA Science and Technology Standards PA Anchor Assessments	Essential Questions
LA3. Recognize and use cross references, see also's, and see references in a variety of media				I	I/R	R/X		What is a cross reference? How can this tool help me find information for my topic?
Information Use							1.1.5D, 1.2.5A, 1.2.5B, 1.8.5C, 1.5B R5.A.2.4, R5.A.2.5, R5.A.2.6, R5.B.3.1, R5.B.3.2	
IU1. Distinguish between essential and nonessential information in print and digital resources		I	I	R	R	R/X		What information is important?
IU2. Use information without plagiarizing			I	I/R	R	X		What is plagiarizing?
IU3. Differentiate fact from opinion in text				I	R	X		What is a fact? What is an opinion? What is the difference?
IU4. Examine and extract relevant information from sources:								What is relevant information?
<ul style="list-style-type: none"> • Main ideas 			I	I/R	R	X		What is the main idea?
<ul style="list-style-type: none"> • Supporting details or facts 			I	I/R	R	X		What are supporting details or facts?
IU5. Evaluate text organization and content to determine author's purpose and effectiveness		I	I	I	I/R	R	1.2.5A R5.A.1, R5.A.2	Why did the author write this?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	K	1	2	3	4	5	PA RWSL Standards PA Science and Technology Standards PA Anchor Assessments	Essential Questions
IU6. Uses Internet resources safely			I	I	I/R	R	PA 1.6F PA 1.8B	What resources will find appropriate web sites?
IU7. Take notes from sources using a structured format			I	I/R	R	X		What are notes? What do efficient notes look like? How do I take notes effectively?
IU8. Properly cite information resources using a structured format, to include:				I	I/R	I/R		What is a citation? Why do you use a citation?
<ul style="list-style-type: none"> • Title 			I	I/R	R	X		
<ul style="list-style-type: none"> • Author(s) 			I	I/R	R	X		
<ul style="list-style-type: none"> • Copyright or publication date 				I	I/R	X		
<ul style="list-style-type: none"> • Article title (encyc. or periodical) 					I	I/R		
<ul style="list-style-type: none"> • URL and date of use/access 						I		
IU9. Select and mark appropriate text for printing				I	I/R	R		How do I select text and print only the information I need?
IU10. Uses graphic organizing techniques to generate new questions and knowledge				I	I/R	I/R	3.6, 3.7	After organizing my information visually, what else do I need to know?

I = Introduced
 R = Reviewed/Reinforced
 X = Expected Achievement
 E = Enriched/Expanded

CURRICULUM OBJECTIVES	K	1	2	3	4	5	PA RWSL Standards PA Science and Technology Standards PA Anchor Assessments	Essential Questions
Synthesis							1.1.5G, 1.2.5C, 1.4.5B, 1.5.5A, 1.5.5B, 1.5.5C, 1.6.5E, 1.8.5C R5.A.2.3, R5.A.2.4, R5.A.2.5,	
S1. Make predictions from pictorial or textual materials	I	I	R	X			1.1.5G	What are these pictures/text telling me?
S2. Make inferences and draw conclusions from text and graphics				I	I/R	R	1.2.5A	What is an inference? What is a conclusion?
S3. Paraphrase or synthesize relevant information from a graphic organizer			I	I/R	R	X		What does paraphrase mean?
S4. Organize information by subtopics from multiple sources (print, electronic)				I	I/R	R	3.6 3.7	How do I organize my information?
S5. Use organized information in written, oral, graphic or multimedia presentations			I	I/R	R	R	1.2.5B, 1.4.5B	How do I share my information with others? What is the best way to share my information?
S6. Combine information from print and electronic resources				I	I/R	R		How do I organize my information?
S7. Collaboratively shares information to express new meaning		I	I	I/R	I/R	I/R	3.5, 3.6	What is the best way to present what I know?
Evaluation							1.5.5E, 1.5.5F	
E1. Examine end product to see if information task was answered/ solved and requirements were met			I	I	R	X		Did I do what I was supposed to do?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	K	1	2	3	4	5	PA RWSL Standards PA Science and Technology Standards PA Anchor Assessments	Essential Questions
E2. Discuss other ways to improve the end product			I	I	I/R	R		How could I make my end product better?
E3. Compare the process used to a guided checklist or rubric			I	I	R	R		Did I compare my work to the rubric/checklist?
BASIC SKILLS TO BE LEARNED IN CONTEXT	K	1	2	3	4	5		
BS1. Identify/recognize Caldecott award books			I/R	X				What is the Caldecott award?
BS2. Identify/recognize Newbery award books					I	I/R		What is the Newbery award?
BS3. Select appropriate reading materials for independent reading	I	I/R	R	X	E	E		What is independent reading? How do I know I can read this book?
BS4. Identify the purpose for reading a type of text (literature/information) before reading			I	I/R	R	R	1.1.5A R5.A.1.6	Why did the author write this book?
BS5. Identify the various genres of literature, including fantasy, science fiction, realistic fiction, historical fiction, mystery, biography/autobiography, folk tales, nursery rhymes and tales, and poetry	I	I	I	I/R	R	R	1.1.5G, 1.1.5H, 1.3.5A R5.A.1	What does genre mean? What are the characteristics of each genre?
BS6. Establish the purpose for reading informational text before reading				I	R	X	1.1.5A	Why should I read this book?
BS7. Demonstrate appropriate behavior when using library resources, including computers	I	I/R	R	X				How should I behave in the media center/library?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	K	1	2	3	4	5	PA RWSL Standards PA Science and Technology Standards PA Anchor Assessments	Essential Questions
BS8. Demonstrate respect for others using library resources	I	I/R	R	X				What is respect?
BS9. Identify and use parts of a book, including:								What are the important parts of a book? How do I use them?
• Cover	I	I/R	R	X				
• Spine and call number	I	I/R	R	X				
• Title page	I	I	R	X				
• Back of title page	I	I	R	X				
• Table of contents			I	R	X			
• Glossary			I	R	X			
• Index			I	R	X			
BS10 Identify components of fiction text (character, setting, plot, theme, point of view)	I	I	I/R	R	R	R	1.3.5B R5.B.1.1	Who are the character/s? What is setting? What is the plot? What is the theme? From whose point of view is the story told?
BS11. Locate the various sections of the library as appropriate for need	I	I	I	I/R	X			What are the different sections of the library? Where do I find what I want?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	K	1	2	3	4	5	PA RWSL Standards PA Science and Technology Standards PA Anchor Assessments	Essential Questions
BS12. Know and use basic computer terms including:								What do I need to know about the computer software? What is software? What are some important computer terms I need know?
• Cursor	I	I	R	X				
• Icons	I	I	R	X				
• Desktop	I	I	R	X				
• Dialog box			I	I	R	X		
• Task bar and status bar					I	I		
• Minimize, maximize, and exit buttons				I	I/R	R		
BS13 Know and use basic computer terms related to the Internet to include:							1.8 B	What is the Internet? What are some important Internet terms I need know? What do I need to know about a web site?
• Homepage					I	I/R		

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	K	1	2	3	4	5	PA RWSL Standards PA Science and Technology Standards PA Anchor Assessments	Essential Questions
• URL					I	I/R		
• Hyperlink and links					I	I/R		
• World wide web				I	R	X		
• Bookmark or favorite				I	I/R	X		
• Virus				I	R	X		
• Document formats (.pdf, HTML)				I	R	M		
• Site navigational features (breadcrumbing)		I	I	I/R	I/R	R		
BS14. Know and use basic computer terms related to databases to include:							1.8B	What is a database? How do I use a database? What are some important database computer terms I need know?
• Field				I	I	R		
• Record				I	I	R		
• Keyword				I	I/R	R		

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	K	1	2	3	4	5	PA RWSL Standards PA Science and Technology Standards PA Anchor Assessments	Essential Questions
BS15. Identify and use basic parts of a computer (monitor, keyboard, printer, mouse, etc.)	I	I/R	R/X					What are the basic parts of the computer? What is hardware?
BS16. Identify the ways technology has changed the lives of people in society today				I	I/R	R/X		How has technology helped me?
BS17. Demonstrate correct use of the printer					I	I/R		What should I print? When should I print?

LAST REVISED 8/16/06

Essential Questions Added 8-05

PA Standard/Assessment Anchors added 1/13/06

Digital Literacy Curriculum Framework added 8/16/2006

Curriculum/Scope&Seq-ES

I = Introduced
 R = Reviewed/Reinforced
 X = Expected Achievement
 E = Enriched/Expanded

EPHRATA MIDDLE SCHOOL MEDIA CENTER
INFORMATION LITERACY AND TECHNOLOGY SKILLS CURRICULUM
SCOPE AND SEQUENCE

CURRICULUM OBJECTIVES	PAAS	6	7	8	Essential Questions
<i>Task Definition</i>					
TD1. Define the information problem	1.8.A	I/R	R	X	What do I want to find information about?
TD2. Focus the task by generating questions related to the information process	1.8.A	I/R	R	X	What specific questions do I want to know about my topic?
TD3. Identify the type, amount and format of information needed: <ul style="list-style-type: none"> • Single resource • Few resources • Comprehensive • Relevant electronic resources 	1.8.B	I/R	R	X	How much information do I need?
TD4. Form hypothesis related to the information process	1.8.A			I	
<i>Information Seeking Strategies</i>					
ISS1. Determine the range of possible sources (print, electronic, AV etc.)	1.8.B	I/R	R	X	Where do I look for information about my topic?
ISS2. Determine the most appropriate resources for: <ul style="list-style-type: none"> • Single resource • Few resources • Comprehensive • Relevant electronic resources 	1.8.B	R	R	X	Which resources are best to use to meet my information needs?
ISS3. Identify and generate possible keywords and subjects	1.8.A 1.8.B	R	R	R	What terms do I look up?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	PAAS	6	7	8	Essential Questions
ISS4. Identify criteria for determining relevant source according to: <ul style="list-style-type: none"> • Currency • Accuracy • Reliability (is authoritative) 	1.8.B	I	R	R	How do I determine which resource is relevant to my needs?
ISS5. Identify resources outside the library including interlibrary loan	1.8.B			I	Are there any resources outside the library I can use?
ISS6. Identify a primary and secondary resource in print and electronic format	1.8.B	I	R	X	What is a primary source? What is a secondary source?
ISS7. Compare the differences between primary and secondary resources	1.8.B	I	I/R	R/X	How do primary and secondary sources differ?
<i>Location and Access</i>					
LA1. Use simple database file structure (record, file, field) with electronic resources	1.8.B	R	R	R	What are the different sections of a database?
LA2. Demonstrate “AND” and “OR” searching in electronic databases to locate information	1.8.B	I	R	R	How do I use “AND” and “OR” when searching a database?
LA3. Locate, navigate, and use electronic resources, including Web sites and periodical databases to locate information	1.8.B	I	I/R	X	How do I use an electronic resource to locate information?
LA4. Locate relevant resources: <ul style="list-style-type: none"> • Newspapers/Books • Periodical databases • Web sites (not search engines) • Community resources • Graphics (maps, charts, photographs) 	1.8.B	I/R	R	X	Which resources are best to use and where do I find them?
LA5. Locate primary and secondary resources for appropriate use	1.8.B	I/R	R	R	Where do I find primary and secondary sources?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

Information Use					
IU1. Identify essential information within the source relevant to the task definition	1.2.A	I/R	R	R	Is this the information I need for the information need?
IU2. Distinguish between factual and unsubstantiated information on the Internet	1.2.A	I/R	R	R	How do I determine which facts are true and which aren't on the Internet?
IU3. Engage, extract and paraphrase relevant information from various resources using a graphic organizer (note taking)	1.8.C	I/R	R	R	How do I organize my information?
IU4. Uses successful reading strategies to understand digital information	1.2B 1.7B	I	I/R	R	What reading skills do I use to find my needed information in electronic resources?
IU5. Document direct quotations to give proper credit	1.8.C			I	How do I write a direct quote?
IU6. Identify information to create a bibliographic citation in MLA format using a graphic organizer	1.8.C	I/R	R	R	What information do I need to create a bibliography?
IU7. Avoid plagiarism and copyright infringements in using resources	1.8.C	I	R	R	What are plagiarism and copyright violation?
IU8. Effectively use equipment for information retrieval such as copiers, audiovisual equipment and computers	1.8.B	I/R	R	R	How do I use electronic equipment to find information?
Synthesis					
S1. Organize notes by topic headings methods of graphic organizers, including an outline	1.8.C	R	R	R	How do I organize my information?
S2. Use graphic organizers to think about the information to generate new ideas	1.5 G	I	I/R	R/X	Have I identified any new ideas or questions from my research?
S3. Use organized notes to create a written rough draft or oral presentation	1.4.B	I	R	R	How do I write a rough draft?
S4. Create a finished bibliography/works cited in the correct format	1.8.C	I	R	R	What is the correct order of a bibliography?
S5. Use a variety of information resources to create multimedia products	1.6.F	I	R	X	How do I arrange my information for a multimedia project?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

Evaluation					
E1. Evaluate the product to determine if the task definition has been met	1.5.G	I	R	R	Have I answered my specific questions about my topic?
E2. Evaluate multimedia products in terms of both the content and format	1.2.B	I	R	R	Does my project clearly present the information I found?
E3. Evaluate oral and written products in terms of requirements and assessment criteria, including legal principles of use	1.5.E 1.5.G	I	R	R	Does my project meet the requirements of the assignment?
E4. Evaluate the information-solving process	1.8.A 1.8.B	R	R	R	Did I successfully follow and effectively use the information-solving process?
BASIC KNOWLEDGE TO BE LEARNED IN CONTEXT					
BK1. Demonstrate an understanding of media center organization, facilities and procedures		I	R/X		How do I find things in the media center?
BK2. Demonstrate responsibility for protecting software and hardware from computer viruses	3.6.D	I	R	R	Do I know how to protect equipment from computer viruses?
BK3. Recognize the copyright limitations of using the photocopier	1.8.C	I	R	R	How does copyright affect photocopier use?
BK4. Demonstrate an appreciation of different types of literature	1.1.H 1.3.A	R	R	X	What are the different genres of literature?
BK5. Demonstrate an understanding of district's acceptable use policy	1.8.C	I	R	R	What are the rules for using the Internet in school?
BK6. Recognizes the safety issues relevant to the Internet	1.6F 1.8B	I/R	R	R	How can I use the Internet safely?

LAST REVISED 8/06

Essential Questions Added 8/05

Internet Skills Added 8/06

Scope&Seq-MS

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

EPHRATA SENIOR HIGH SCHOOL MEDIA CENTER
INFORMATION LITERACY AND TECHNOLOGY SKILLS CURRICULUM
SCOPE AND SEQUENCE

CURRICULUM OBJECTIVES	PAA S	9	10	11	12	Essential Questions
Task Definition						
TD1. Select and narrow or refine a research topic	1.8.A	I	R	X		How do I narrow my broad topic?
TD2. Formulate essential questions and subtopics for a research topic	1.8.A	R	X			What is important to know about my topic? How can I break down this broad topic?
<ul style="list-style-type: none"> • Identify key concepts and terms 	1.8.A	R	X			How do I use electronic tools to find definitions?
TD3. Identify the type, amount, and format of information needed, specifically:	1.8.B					What types and how much information do I need about my topic?
<ul style="list-style-type: none"> • background/overview or in-depth/comprehensive 	1.2.A	X				What basic background info do I need to know about my topic?
<ul style="list-style-type: none"> • fact or opinion 	1.2.A	I/R	R/X			Why do I need to differentiate between fact and opinion?
<ul style="list-style-type: none"> • primary or secondary 	1.8.B	R/X	E			What is the difference between a primary and secondary source? Why and when do I use each type of source?
<ul style="list-style-type: none"> • statistical, including graphs and charts 	1.2.A	I/R	R/X			How does statistical information validate and improve the information I have collected?
TD4. Write a focused thesis statement	1.8.C		I	R/X		How does a thesis statement help me to define and write about a topic?
Information Seeking Strategies						
ISS1. Determine the most appropriate sources to use for:						What types of print and electronic resources (OPAC, databases, WWW) give me summary or detailed information about my topic?
<ul style="list-style-type: none"> • background/overview or in-depth/comprehensive 	1.8.B	R/X				Which are the most appropriate sources for background information?
<ul style="list-style-type: none"> • fact/opinion 	1.2.A	I/R	R/X			Which are the most appropriate sources for factual or biased information?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	PAA S	9	10	11	12	Essential Questions
<ul style="list-style-type: none"> primary/secondary 	1.8.B	R/X	E			Which are the most appropriate sources for primary or secondary information?
<ul style="list-style-type: none"> statistical, including graphs and charts 	1.2.A	I/R	R/X			Which are the most appropriate sources for statistical and graphical information?
ISS2. Identify criteria for determining relevant print & electronic sources for specific information needs, including:						How do I determine if a source is relevant and appropriate for my particular information needs?
<ul style="list-style-type: none"> currency 	1.2.B 1.8.B	R	X			How do I determine if a source is up to date?
<ul style="list-style-type: none"> accuracy 	1.2.B 1.8.B	R	X			How do I determine if the information in a source is accurate?
<ul style="list-style-type: none"> reliability (is authoritative) 	1.2.B 1.8.B	R	R/X			How do I determine if the information in a source is reliable?
<ul style="list-style-type: none"> completeness 	1.2.B 1.8.B	I/R	R/X			How do I determine if the information in a source is comprehensive?
<ul style="list-style-type: none"> preciseness 	1.2.B 1.8.B	I/R	R/X			How do I determine if the information in a source is detailed enough to meet my needs?
<ul style="list-style-type: none"> validity (is on target) 	1.2.B 1.8.B	I/R	R/X			How do I determine if the information in a source is suitable?
<ul style="list-style-type: none"> availability (including interlibrary loan) 	1.8.B	R/X				How do I check to see if a needed source is available?
<ul style="list-style-type: none"> ease-of-use 	1.8.B	R/X				How do I determine if the source is easy to use?
<ul style="list-style-type: none"> filtering of inappropriate sites 	1.8.B	R/X				What types of tools can I use or skills can I apply to filter inappropriate sites?
ISS3. Identify important keywords embedded in questions of a research problem	1.8.A 1.8.B	R	X			How do I determine which words and concepts are important to explore?
ISS4. Know when to use indexing or subject (controlled vocabulary) searching versus keyword searching embedded in full-text	1.8.B	I	R	X		What is the difference between searching by subject or by free text (keyword)? Which type of searching will improve my search results?
ISS5. Use important or unique keywords and synonyms to formulate a search strategy	1.8.B	I/R	X	E		How do I determine which terms are unique and how do they improve my search results?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	PAA S	9	10	11	12	Essential Questions
Location and Access						
LA1. Be able to locate and obtain resources from the library, online networks, interlibrary loan, and the community	1.8.B	R	X			How do I find and access resources from the library, online networks, interlibrary loan, and the community? Why and when is it appropriate to use resources from multiple locations?
LA2. Apply an understanding of database structure when using electronic resources, such as the Internet and online periodical databases	1.8.B	R	X	E		How is a database structured and how does that help me to find relevant and usable information?
LA3. Use search tools and commands in electronic databases	1.2.B 1.8.B					Why is it important to use different search tools and various commands when searching?
<ul style="list-style-type: none"> AND and OR operators 		R	X			What is the difference between the AND and OR Boolean operator? How do I apply the AND and OR operators to improve my search results?
<ul style="list-style-type: none"> truncation 	1.2.B 1.8.B	I	R/X			What is truncation and, when needed, how do I apply this technique in my search strategy?
<ul style="list-style-type: none"> phrase searching 	1.2.B 1.8.B	I	R/X			What is phrase searching and, when needed, how do I apply this technique in my search strategy?
<ul style="list-style-type: none"> date searching 	1.2.B 1.8.B	I	R/X			How do I limit my search by date and when is that important to my search results?
LA4. Effectively use an Internet search tools and/or appropriate Invisible Web databases or sites to locate relevant information	1.2.B 1.8.B	I	R	E		Which search tool is best for my search needs? Which search strategies or special features are most effective in that particular search tool?
LA5. Use equipment for information retrieval, such as copiers, AV equipment, microfilm equipment, and computers	1.8.B	I/R	X			How do I use information retrieval technology effectively to gather information?
Information Use						
IU1. Locate and use primary sources appropriate to a research need	1.8.B	R/X	E			How do I use primary sources to support my research?
<ul style="list-style-type: none"> Uses print, AV, and electronic primary sources 	1.8 B	R/X	E			What traditional primary resources are available to support my research?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	PAA S	9	10	11	12	Essential Questions
<ul style="list-style-type: none"> Uses digital tools to collaborate with peers, community members, experts and others as primary source alternatives 	1.8 B	I/R	R/X	X/E		What human resources are available to help me with my research?
<ul style="list-style-type: none"> Collaboratively share (use) information to gather background knowledge or express new meaning 	1.8 B	I/R	R/X	X/E		
IU2. Retrieve relevant information within print, non-print and electronic resources	1.2.B 1.8.B	R	R/X	X/E		How do I gather and record information found within various formats of sources?
<ul style="list-style-type: none"> Use successful reading and listening strategies to understand digital information 	1.6 F	R	R/X			How do I gather information from various formats (text, graphs, audio-visual)?
IU3. Distinguish between factual, authoritative information and unsubstantiated or biased information, particularly on the Internet	1.2.A 1.2.B	R	R	X		When do I only want to use factual, authoritative information? When is it appropriate to use biased or unsubstantiated information and how do I record and note that it is biased?
IU4. Engage, extract, and paraphrase relevant information on note cards from selected resources	1.8.C	R	X			How do I summarize relevant information for my topic?
IU5. Identify information to correctly cite print, non-print, and electronic resources in MLA format	1.8.C	R	X			How do I properly document various sources used in research in MLA style and why is that important?
IU6. Apply legal principles and ethical conduct related to information use, including avoidance of plagiarism and compliance with copyright laws and guidelines	1.8.C	R	R/X			What are the legalities in reusing someone else’s information and why is that important? How do I avoid unethical use of information (plagiarism)?
<ul style="list-style-type: none"> Respects others’ intellectual property 						How do I acknowledge the contributions of others?
Synthesis						
S1. Critically select and use the most applicable information	1.2.A	R	X	E		How do I determine which is the most important information to use for my purpose?
S2. Organize notes according to an outline or other graphic organizer	1.8.C	R	X			How do I organize my information effectively?
S3. Create end product using organized notes	1.8.C	R	X			How do I create an end product from my organized information?
S4. Use a variety of information resources to create a multimedia or digital product to express ideas and information	1.2.B 1.6.F	R/E				What types of information sources and technology will help me to create a multimedia or digital product? How do I effectively express ideas and information using (project) a multimedia or digital presentation?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	PAA S	9	10	11	12	Essential Questions
<ul style="list-style-type: none"> Collaboratively share (use) information to express new meaning 	1.8.C	R	X			
S5. Effectively use information to defend a position on an issue	1.4.C 1.6.E	I	R/X	E		What information should I use to persuade an audience to support my position?
S6. Create a bibliography/works cited in correct MLA format	1.8.C	R	X			How do I create a works cited list in MLA format?
S7. Use parenthetical documentation for direct quotes, statistics, and elsewhere as needed to give credit for origination or authorship	1.8.C	I	R/X			How do I parenthetically document someone else's information within the text of my research paper?
Evaluation						
E1. Establish evaluation criteria or a self-assessment checklist for a project or assignment	1.8.C	I	R	X		What forms of measurement do I use to assess my project or assignment?
E2. Evaluate multimedia products in terms of both the content and format	1.2.B	R/X	X	E		How do I determine if my multimedia product successfully conveyed information correctly and effectively?
E3. Evaluate oral and written products in terms of requirements and assessment criteria, including legal issues of information use	1.5.G 1.5.E	R	X	E		How did my final product measure up to the assessment criteria? How do I determine if I fulfilled all of the assignment requirements successfully?
E4. Evaluate both the information-solving process and the end product	1.5.E	R	R/X	X		How do I determine if I completed the information solving process successfully and produced a suitable end product?
BASIC KNOWLEDGE TO BE LEARNED IN CONTEXT						
BK1. Demonstrate an understanding of media center organization, facilities, and procedures		I	R/X			How do I successfully navigate and use the media center facility and resources?
BK2. Identify terminology and define concepts related to telecommunications and telecomputing (E-mail, online searching, FTP)		R	X			What are the key terms and concepts to successfully use telecommunication technology?
BK3. Demonstrate an understanding of the district's Internet acceptable use policy	1.8.C	R	X			What are the rules and regulations for using the Internet appropriately at school?
BK4. Demonstrate an understanding of the legal reuses of information and its related technologies (copiers, recorders, and computers)	1.8.C	R	X			How do I use information and resources ethically?

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded

CURRICULUM OBJECTIVES	PAAS	9	10	11	12	Essential Questions
BK5. Recognizes the safety issues relevant to the Internet	1.6 F 1.8 B	R	R/X	X		What type of information should I share or not share on the Internet? How do I determine safety while using e-commerce sites?
<ul style="list-style-type: none"> Recognizing the lack of privacy on the Internet 	1.6 F 1.8 B	R	R/X	X		What can result from my lack of privacy on the Internet?

Scope&Seq-HS

Essential Questions added 8/21/05

PA Academic Standards (PAAS) aligned 1/13/06

K-12 Internet and Tech Skills merged 8/16/06

LAST REVISED 8/16/06

Merged K-12 Info Lit and Tech Skills Curriculum 9/06

I = Introduced
R = Reviewed/Reinforced
X = Expected Achievement
E = Enriched/Expanded