S Orientation ~   How to use the Library - review. Schedule through LA classes.

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Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards

p

t Research Process ~

This is an ongoing unit to be implemented as content area teachers schedule library collaboration for their research units.

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Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
m	Research Process	With guidance, use a critical-thinking process that involves asking questions, investigating the answers, and developing new understandings for personal or academic independent learning activities.	Inquiry				1.1.1-SKILLS ~ Follow an inquiry-based process in seeking knowledge in curricular subjects, and make the real-world connection for using this process in own life.
b What is research?							
e			Process				
r What is inquiry?							
			Investigate				
			Research				
What do I need to know?	Task Definition - preparing for research	Read background information to develop a basic understanding of the problem or question.	Background Information			World Book Online	1.1.2-SKILLS ~ Use prior and background knowledge as context for new learning.
What do I want to learn?		With guidance generate a list of keywords for an inquiry-based project	Reference Sources			Print Reference Resources	
What sources will help me develop background information?		Identify and use appropriate sources to acquire background information.	Key Words			Key Word graphic organizer	
			Synonyms				
			Broader Topic				

Essential Questions	Process/Stage	Skills/Description	Vocabulary	Tools	Standards
			Narrower Topic		
How do I determine what type of questions will focus my research?	Define the Task	Formulate questions about the topic with guidance.	Questioning Process		1.1.3-SKILLS ~ Develop and refine a range of questions to frame the search for new understanding.
What do I need to know?	Develop a Working Thesis Statement		Research Questions		
		Determine with guidance what what information is needed to support the investigation and answer the questions.			
What do I already know?			Factual Questions		
		With guidance refine questions depending on the type of information needed (e.g. overview, big-idea, specific detail, cause and effect, comparison).			
Is my topic researchable?			Interpretive Questions		
		With guidance develop a working thesis.			
How does a working thesis statement help me focus my research?			Working Thesis		
How do I narrow or broaden a topic?					
Which resources are best to answer my questions?	Identifying Sources	Locate appropriate non-fiction resources utilizing the library's OPAC and classification scheme (Dewey Decimal)	Nonfiction	OPAC	1.1.4-SKILLS ~ Find, evaluate, and select appropriate sources to answer questions.
Where are these resources located?	Information Seeking Strategies	Select and use appropriate sources, including specialized reference sources, databases and NetTrekker websites to answer questions.	General Encyclopedia	NetTrekker	

Essential Questions	Strategies	Skills	Vocabulary	Resources	Standards
How do I determine which source is relevant to my needs?		With guidance evaluate sources based on criteria such as copyright date, authority of author or publisher, comprehensiveness, readability, and alignment with research needs.	Specialized Reference Sources	World Book (print and online)	
			Online Catalog (OPAC)	EBSCO databases	
			Search Engine (NetTrekker)	Power Library databases	
			Subscription Database	Print books and magazines	
			Periodical (magazine, journal, newspaper)		
What is relevant information?	Information Seeking Strategies	Skim/scan to locate information that is appropriate to age and ability level.	RADCAB	RADCAB	1.1.5-SKILLS ~ Evaluate information found in selected sources on the basis of accuracy, validity, appropriateness for needs, importance, and social and cultural context.
Why is the author/publisher important?			Relevancy		
		Identify facts and details that support main ideas.			
Why did the author write this?			Appropriateness		
		Evaluate facts for accuracy.			
How do I determine if a source is up to date?			Details		
		Distinguish between fact and opinion (bias).			
			Currency		

Essential Questions	Skill	Indicators	Vocabulary	Resources	Standards
		Interpret information taken from maps, graphs, charts and other visuals.	Authority		
		Select information to answer questions or solve a problem.	Bias		
	Extracting Information	With guidance evaluate, paraphrase, and summarize information in various formats.		NoodleTools subscription	1.1.6-SKILLS ~ Read, view, and listen for information presented in any format (e.g., textual, visual, media, digital) in order to make inferences and gather meaning.
How do I gather and record information found in various sources.			NoodleTools		1.1.8-SKILLS ~ Demonstrate mastery of technology tools for accessing information and pursuing inquiry.
		With guidance use both facts and opinions responsibly by identifying and verifying them.			
How do I summarize relevant information for my topic?			Notecard		
		With guidance use software or online tools to record and organize information (Noodle Tools)			
What is a direct quote?			Direct Quote		
How do I paraphrase?			Paraphrase		
How do I organize my research notes?			Summarize		
What information do I need to create a bibliographic citation?			My Ideas/Reflection		
			Piles		
			Outline		

How do I determine which information is factual and which is based on point of view or bias?	Use of Information			1.1.7-SKILLS ~ Make sense of information gathered from diverse sources by identifying misconceptions, main and supporting ideas, conflicting information, and point of view or bias
		With guidance identify Bias	Bias	
		With guidance seek more than one point of view by using diverse sources.	Point of View	
		With guidance explain the effect of different perspective (points of view) on the information.	Fact	
			Opinion	
What is a search strategy?	Location and Access	With some guidance use technology resources such as online encyclopedias, online databases, and web subject directories to locate information.	Electronic Resources	1.1.8-SKILLS ~ Demonstrate mastery of technology tools for accessing information and pursuing inquiry.
What is a subject search?		With some guidance implement key word strategies.		
How do I locate information in a database?		With some some guidance select and use grade-level appropriate electronic electronic reference materials and teacher-selected internet sites to answer questions.	Database	
What is a keyword search?		With some guidance use a variety of search engines to do advanced searching. (NetTrekker, Google, Databases)		
How do I locate information in a website?			Website	
			Search Strategy	
			Keyword Search	
			Subject Search	

	Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
				Phrase Search				
				Truncation				
				Search Engines				
				Subject Directory				
	How do I draw conclusions when there are differing points of view? How do I make sense of the way information is treated in different sources?	Analyze and Synthesize						2.1.1-SKILLS ~ Continue an inquiry-based research process by applying critical thinking skills (analysis, synthesis, evaluation, organization) to information and knowledge in order to construct new understandings, draw conclusions, and create new knowledge.
O	Research Process ~	See September for the complete research process curriculum. Individual components will be implemented throughout the school year with library/content area integrated units.						

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