<u>Information Fluency: Priority Benchmark Skills and Assessments</u> <u>Grade 9</u>

STANDARDS AND INDICATORS	BENCHMARKS	ASSESSMENTS
STANDARD 1: USING	INQUIRY TO BUILD UNDERSTA	NDING
Inquiry Phase: Connect	9.1 Identifies key words, concepts, and synonyms, both stated and implied, for topic and uses them to further research. 9.2 Develops a schema or mind map to express the big idea and the relationships among supporting ideas and topics of interest.	9.1 Identifying Key Words,Concepts, Synonyms and RelatedTerms9.2 Mind Mapping
Inquiry Phase: Wonder		
Inquiry Phase: Investigate	9.3 Takes notes using one or more of a variety of note taking strategies, including reflecting on the information (e.g., graphic organizers, two-column notes).	9.3 Notetaking Grid 9.3 Reflective Notetaking 9.3 Notetaking to Answer Questions 9.3 Notes on Main Ideas and Supporting Evidence 9.3 Notes on Main Ideas and Supporting Evidence - Example
Inquiry Phase: Construct	9.4 Organizes information independently, deciding the structure based on the relationships among ideas and general patterns discovered.	9.4 Organizing Information –Example9.4 Organizing Information -Rubric
Inquiry Phase: Express		
Inquiry Phase: Reflect	9.5 Identifies own strengths and sets goals for improvement.	9.5 My Strengths in the Inquiry Process 9.5 My Strengths in the Inquiry Process - Example
STANDARD 2: PURSUING I	PERSONAL AND AESTHETIC GROWTH	_
Reader/Viewer Response and Expression		
Personal Exploration Motivated, Independent Learning		
STANDARD 3: DEMONSTR	ATING SOCIAL RESPONSIBILITY	
Importance of Information to a Democratic Society		
Effective Social Interaction to Broaden Understanding		
Ethical Behavior in Use of Information		

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Identifying Key Words, Concepts, Synonyms and Related Terms

Effective researchers use a strategy of broadening their search for information by identifying key words, concepts, synonyms, and related terms. You can find these alternative search terms by consulting an overview article in a magazine or encyclopedia, a thesaurus, a dictionary, search engines, and subject headings in the library catalog. You should start this process as soon as you decide on a topic or research question and continue to build your list throughout your inquiry.

Related Terms (Words that are closely associated with key words, but not substitutes like synonyms)		Ex: climate change, earth's atmosphere		Related Terms	
Synonyms (Words that mean the same as your key words)	York City during the 21st century?	Ex: earth temperature, greenhouse effect		Synonyms	
Concepts (Words that describe the big ideas to which your topic is related)	Example Topic/Question: How will global warming affect life in New York City during the 21st century?	Ex: ecological system, environment		Concepts	
Key Words (Words that convey the main ideas of your topic or questions)	Example Topic/Question: How wi	Ex: global warming, climate, greenhouse gases, solar radiation	Your Topic/Question:	Key Words	

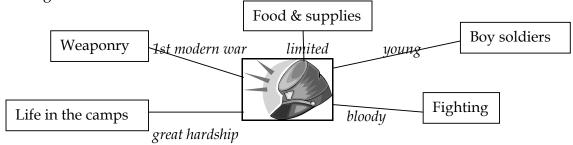
Mind Mapping

Mind Mapping is a method of creating a visual image that communicates a big idea, supporting ideas, and relationships among ideas. Researchers use mind maps to brainstorm a picture of their inquiry topic, to figure out the aspects of the topic that are most interesting or open to inquiry, and to think through definitions, examples, causes, effects, and questions.

What does a mind map look like?

A mind map has an image of the main idea in the center, with 5-10 ideas that relate to the main idea revolving around the center, but connected by lines labeled with words that express the relationship between the two ideas.

For example, a mind map of the "Life of a Soldier in the American Civil War" might have an image of a soldier's cap in the center, with ideas like "boy soldiers," "food and supplies," "weaponry," "life in the camps," and "fighting" surrounding the center image.



Process for Creating a Mind Map

- 1. In the center of your paper or screen, draw a symbol or image that represents the main idea.
- 2. Draw branches from the main idea to 5-10 subtopics that you have gathered from prior knowledge or background information. The subtopics can be expressed as words or images.
- 3. Label the branch lines with descriptive words or verbs to express the relationship between the ideas.
- 4. You may decide to extend the mind map by brainstorming smaller topics that relate to each subtopic.
- 5. You can use color, different types of print or graphics, and variations in size to ensure that your main ideas and relationships are clear.
- 6. Be creative! This is a chance to clarify an overall picture of your inquiry topic and figure out what **you** want to research in more detail.

Try these sites for free mind mapping tools:

- http://mywebspiration.com/
- http://www.mindmeister.com/
- http://www.mindomo.com/

Paraphrase Vocabulary -Key Words Class_ Notetaking Grid Information Resource (Website) Key Question: Key Question: Topic: _ Name_

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Reflective Notetaking

Question:		
Source/Pg	Notes in Own Words - Answers to	Reactions (Questions, Opinions,
_	Question	Responses, Gaps, Inaccuracies)

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Notetaking to Answer Questions

Key Question:	Evidence:	
Key Question:	Evidence:	
Key Question:	Evidence:	
Topic:	Resource:	Evidence:

Name_

Notes on Main Ideas and Supporting Evidence

Notes for Followup in Other Sources What questions are raised or left unanswered? What conflicts in supporting evidence did you find?	
Supporting Evidence/Details What evidence is offered to back up the main ideas?	
Main Idea of Source What is the main idea from your source? How does it relate to your key question/topic?	
Citation Information for Source Write down the information you will need to write a bibliographic citation for your source (www.citationmachine.net)	
Key Question/Topic Write down your topic sentence and/or question you are attempting to find information to answer/prove	

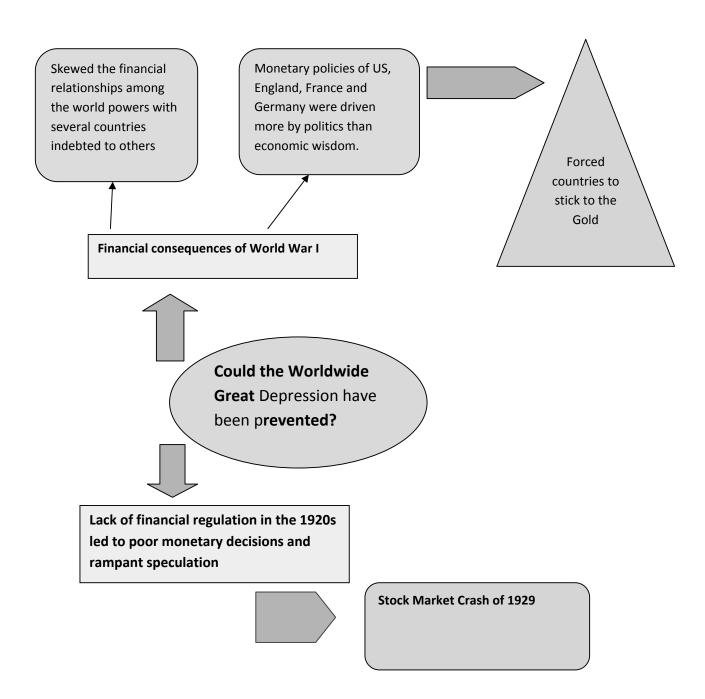
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Notes on Main Ideas and Supporting Evidence - Example

Key Ouestion/Topic	Citation Information for Source	Main Idea of Source	Supporting Evidence/Details	Notes for Followup in Other Sources
Write down your topic sentence and/or	Write down the information you will need to write a bibliographic	What is the main idea from your source? How does it relate to your key	What evidence is offered to back up the main ideas?	What questions are raised or left unanswered? What
question you are attempting to find information to	cuation for your source (www.citationmachine.net)	אמפאווטע נוסף נכ:		conjucis in supporting evidence did you find?
answer/prove				
Global Warming	"Global warming labeled a	With a packet of claims that are	Channel 4 says that the	A documentary that aired on TV in Britain claims
Why do some people still believe the	'scam'; Documentary	conventional wisdom, a television documentary to be aired in Britain	roll-call of experts," including nine professors, who are experts	that global warming is a "scam" and is really
prevailing view of	blames the sun.(PAGE	this week condemns man-made	in climatology, oceanography,	caused by the sun.
global warming is a myth?	ONE)." <u>The Washington</u>	global warming as a myth that has become "the biggest scam of	meteorology, biogeography and paleoclimatology.	The program claims to
	<u>Times</u> (March 6,	modern times."	Scientists in the Channel 4	renowned scientists who
	2007): A01. <u>Junior</u>	The program titled "The Great Global Warming Scandal" and set	documentary cite what they claim is another discrepancy	that greenhouse gases are
	Edition. Gale. NYC CSD	for screening by TV Channel 4 on	involving conventional research,	the main culprit in global warming. They point to
	#79 Legacy HS for	Thursday dismisses claims that high levels of greenhouse gases	saying that most of the recent global warming occurred before	the world getting colder after 1940 when
	Integrated. 14 Nov. 2007	generated by human activity causes climate change. Instead, the	1940, after which temperatures around the world fell for four	industrialization took off and to the fact that some
		program suggests that the sun	decades.	of the scientists the UN
	m/itx/start.do?prodId=ST	itself is the real culprit.	It also questions an assertion by	warming do not.
	OJ>. Gale Document Number:CJ160176039	It relates to my topic because major new sources are still reporting on the idea that global warming is a myth	the U.N. Intergovernmental Panel on Climate Change's report that it was backed by	
			some 2,500 of the world's leading scientists.	

Organizing Information -- Example



Discovered Patterns: The financial costs of World War I lead to poor monetary decision worldwide based on politics and revenge rather than sound economics. At the same time, the lack of financial regulation worldwide and the decision to stick with the gold standard, lead to speculation in the US resulting in the Stock Market Crash and subsequent financial shocks around the globe.

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Organizing Information - Rubric

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Graphic organizer/Structure	Chosen structure clearly displays the main ideas and supporting evidence and firmly supports the thesis	Chosen structure displays the main ideas but lacks supporting evidence; the ideas do not prove the thesis	Chosen structure does not differentiate between main and supporting ideas and does not offer clear support for the thesis	Unclear why structure was chosen; no structure selected
Relationships among ideas	Relationships among topic ideas are clear and evident	Relationships among ideas are somewhat clear and evident	Relationships among ideas are often unclear and rarely evident	Relationships among ideas are not clear or evident
Discovered patterns among topic ideas	Patterns/trends among topic ideas are stated and apparent (e.g., cause and effect, order of importance)	One or two patterns/trends among topic ideas are stated and apparent	Patterns/trends among topic ideas are not visibly stated and apparent	No evidence of patterns/trends among topic ideas is found

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My Strengths in the Inquiry Process

My Strengths in the Inquiry Process	My Goals for Improving My Skills
Connect: (Connecting to own interests, prior knowledge, and background knowledge)	Connect:
Wonder: (Asking questions, making predictions, forming tentative thesis)	Wonder:
Investigate: (Finding and evaluating information to answer questions)	Investigate:
Construct: (Constructing new understandings, forming opinions, drawing conclusions)	Construct:
Express: (Applying new understandings to new context; expressing new ideas to share with others)	Express:
Reflect: (Reflecting on own learning; asking new questions)	Reflect:
Other:	Other:

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My Strengths in the Inquiry Process - Example

My Goals for Improving My Skills
Connect:
I need to improve on making connections between what I am learning to prior knowledge
Wonder:
I can always refine and reformulate my questions to improve their quality
Investigate:
I need to work on generating good key word terms to locate the exact information I need
Construct:
It is hard for me make decisions about what information and evidence to include and what to leave out to support my argument(s)
Express:
It is difficult for me to use traditional means (a research paper) to present my research and conclusions
Reflect:
Sometimes, my reflection does not translate into action
Other:
I need to not always take the leadership role in groups