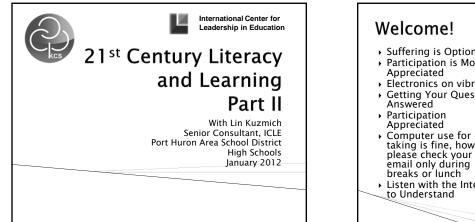
# 21<sup>st</sup> Century Literacy And Learning Part II

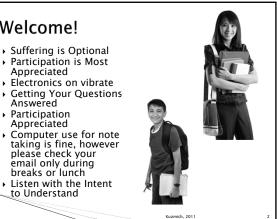


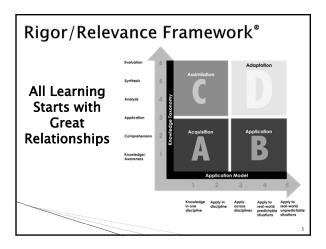
International Center for Leadership in Education

# With Lin Kuzmich Senior Consultant, ICLE Port Huron Area School District High Schools January 2012

Lin's email: <u>kuzenergy@gmail.com</u> Website: <u>www.KuzmichConsulting.com</u> International Center for Leadership in Education <u>http://www.LeadersEd.com</u>







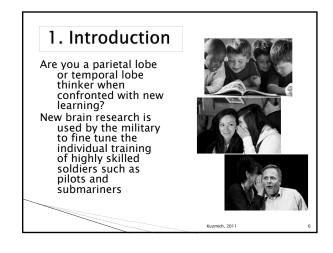
## High Payoff Literacy Strategies are in these Categories: The Big 8



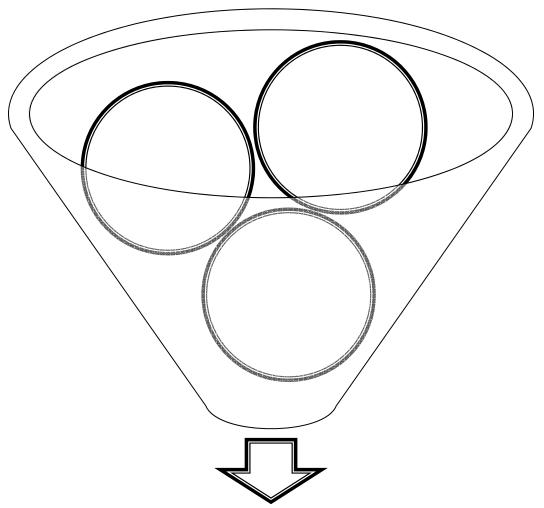
#### Vocabulary Student Dialogue and

- Grouping Write to Learn
- Graphic Organizers and Note Takers
- 5. Teacher and Student Questioning
- Document, Technological, and Quantitative Literacy Strategies
- Leveled Materials and Digital, Multi-Media
- Resources 5. Text and Media Complexity Access

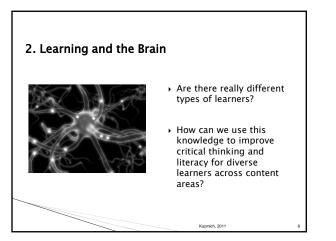


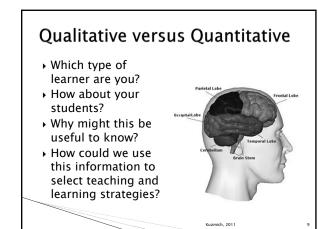


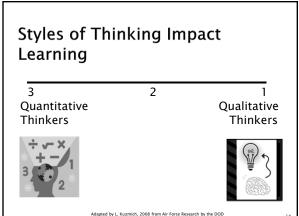
# My Best New Learning Opportunity Must Include...



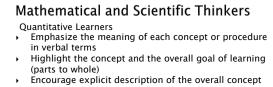
Degrees of Learning: 1. I got it! 2. I can independently do something with my new learning? 3. I can teach others!







A	dapted	by L.	Kuzmich,	2008	from Air	Force	Research	by	t



- and framework for the math...link parts to whole
- Use a step-by-step approach to connect the model to the numerical procedure
- Start with the larger idea and use different approaches to reach the same concept
- Separate multiple tasks into smaller units and explain the connections
- Use visuals and relevant found materials
- Opportunities to explain reasoning
  - Practice brainstorming and analogies m Sousa, 2007 and Griffin, 2002

#### **Linguistic Thinkers**

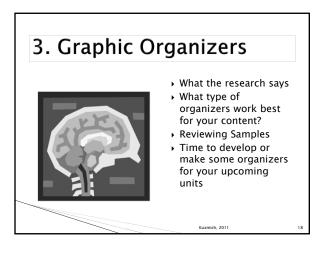
#### Qualitative Learners

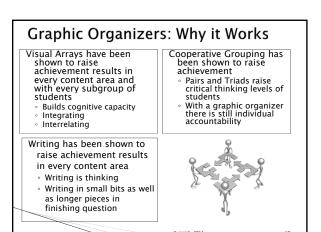
- Connect models first to the concept and then to the procedure before you calculate
- Emphasize how individual components contribute to the overall design of a geometric figure or an algebraic expression, cell construction or periodic table
- Encourage explicit description of each step used
- Use simulations, experiments, and real world problems
- Provide opportunities for the student to work in multi-
- style cooperative groups grade group contribution and individual work
- Provide a variety of manipulatives and models Visuals and videos
- Graphical displays of content work Practice inductive and deductive logic
  - Adapted from Sousa, 2007 and Griffin, 2002

#### **Research Results and Findings**

- Semantic organizers, cognitive maps with a mnemonic, and framed outlines were all found to be highly effective in improving reading comprehension in any learning area. Cognitive maps without a mnemonic were found to be moderately effective.
- Graphic organizers were effective regardless of whether they were implemented by teachers or researchers
- Students using graphic organizers significantly outperformed their peers who did not use graphic organizers regardless of whether they developed their own graphic organizers or used teacher- or researcher-generated ones. Students ranging in age from elementary to high school all benefited significantly from using graphic organizers.

Kuzmich, 2011





#### Over 29 Major (300+ Total) Studies As a tool to support students' thinking and learning processes, the 29 largest research studies have shown that graphic organizers help students: brainstorm ideas

- develop, organize, sequence, and communicate ideas see connections, patterns, and relationships
- assess and share prior knowledge develop vocabulary
- outline for writing process activities
  highlight important ideas
- classify or categorize concepts, ideas, and information
- comprehend the events in an article, book, diagram, other visual materials and media (any input type)
   improve social interaction between students, and facilitate group work and collaboration among peers
   guide review and study
- improve reading comprehension skills and strategies at higher levels of thinking

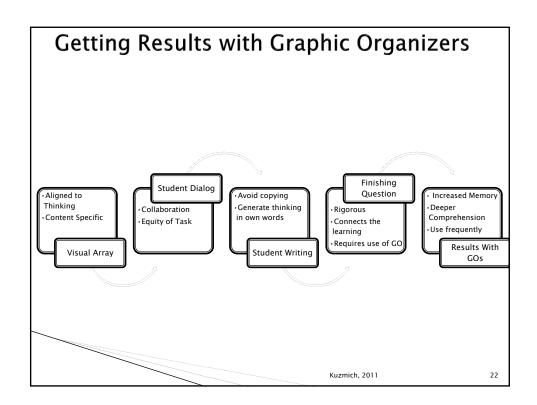
#### facilitate recall and longer term retention

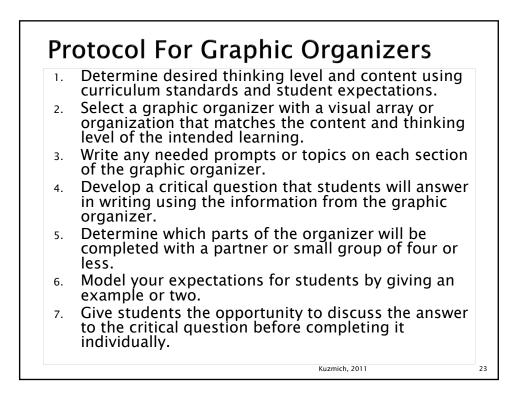
Kuzmich, 2011

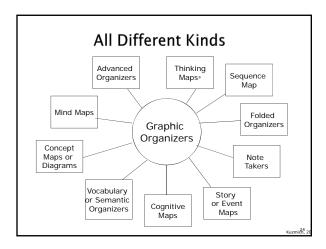
### Quality Use of Graphic Organizers As the journey through new information or a review, but not the end result of learning

- Use a finishing question to raise rigor and consolidate thinking of individual learners and use the information in the graphic organizer to pull thinking and learning together
- Use to chunk, sequence, show relationships, compare, analyze, etc. Students should do most of the work, limit copying except to set up headings or divisions
- Teach students several types, occasionally have students select which ones to use
- Use with frequency (one to three in a unit of study)
- Pair with structured student dialogue

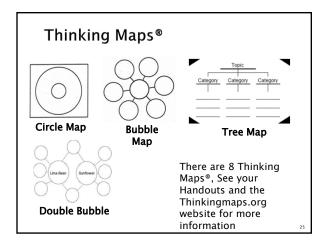
Kuzmich, 2011



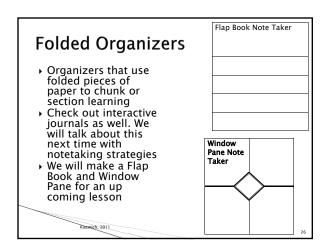






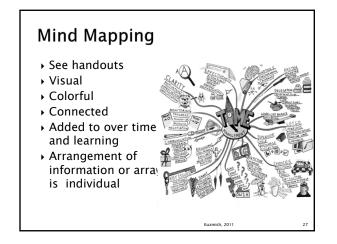


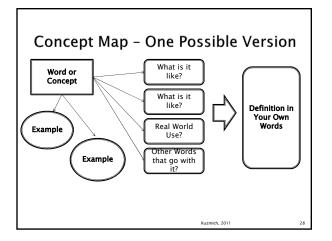




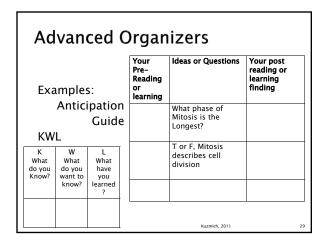


	Intr	oducing Thinking Maps
Questions from Texts, Teachers and Tests	<ul> <li>Thinking Processes</li> </ul>	Thinking Maps as Tools
low are you defining his thing or idea? What is he context? What is your rame of reference?	DEFINING IN CONTEXT	Circle Map
low are you describing his thing? Which adjectives yould best describe his thing?	DESCRIBING QUALITIES	Bubble Apple
What are the similar and different qualities of these things? Which qualities do you alue most? Why?	COMPARING and CONTRASTING	Double Bubble Map
Vhat are the main deas, supporting deas, and details in his information?	CLASSIFYING	Tree
What are the component parts and ubparts of this whole hysical object?	PART-WHOLE	Brace Map —— {—_ {{{
What happened? What is the sequence of events? What are he substages?	SEQUENCING	
What are the causes and effects of this event? What might happen next?	CAUSE and EFFECT	Multi- Flow Map
What is the analogy being used? What is the guiding netaphor?	SEEING ANALOGIES	Bridge Mapas 1-9





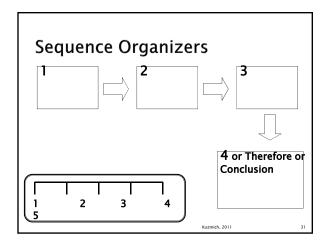




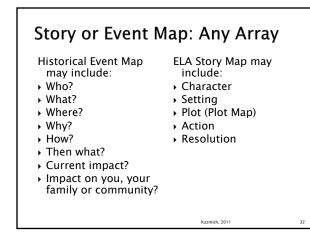


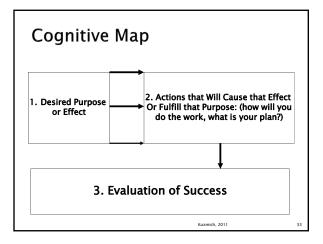
Vocabulary or Semantic Organizer					
List Biomes	Plant Life/Vegetation	Typical Animal Life	Ecosystem Characteristics or Climate or Soil Type		
		1			
	1	1			
		Kuzmich, 20	11		











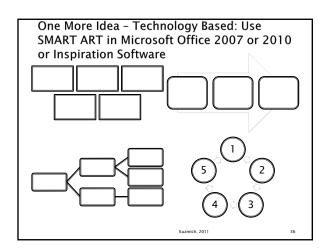


In your own words what is the question asking:
Select quote (or example):
What is the last thing you want the reader to know?



Big Ideas	Notes, Facts, Attribute, Functions, etc.







#### Looking at Examples

- Look at examples in your packet
- Think about an upcoming unit or lesson
- Create one or two organizers for students as they learn new material, compare or develop complexity of thinking, for review of quantities of material, or a purpose of your choice

Kuzmich, 2011

#### Links to Graphic Organizers

#### Math:

http://www.sw-georgia.resa.k12.ga.us/Math.html

http://www.region15.org/subsite/dist/page/graphic-organizers-3114

#### Science:

http://www.teachervision.fen.com/slideshow/graphic-organizers/52539.html

http://www.abcteach.com/directory/researchreports/graphic\_organizers/

#### ELA:

http://www.region15.org/subsite/dist/page/graphic-organizers-3114

http://englishcompanion.ning.com/

http://www.nvo.com/ecnewletter/graphicorganizers/

http://www.englishcompanion.com/Tools/notemaking.html

http://www.ereadingworksheets.com/e-reading-worksheets/all-reading-worksheets-list/

#### **Social Sciences:**

http://www.readingquest.org/strat/

http://www.cheney268.com/Learning/Organizers/SocialStudies.htm

#### Free downloads from Various Sources-Cross Content and Grades:

http://www.smartdraw.com/examples/software-design/

http://www.teachervision.fen.com/tv/browse.php?term=351004000000

http://www.eduplace.com/graphicorganizer/

http://edhelper.com/teachers/graphic\_organizers.htm

http://www.teachervision.fen.com/graphic-organizers/printable/6293.html

http://themes.pppst.com/graphic-organizers.html

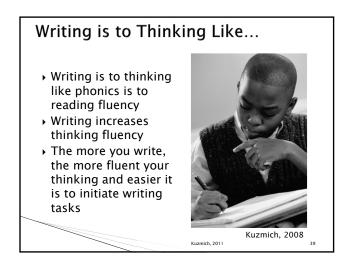
http://its.leesummit.k12.mo.us/graphic\_organizers.htm (links to other sources)

http://www.educationworld.com/tools\_templates/

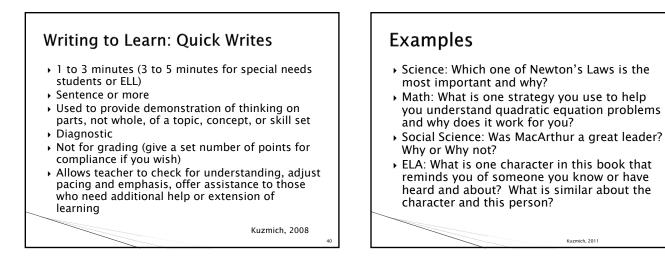
http://www.thinkport.org/technology/template.tp

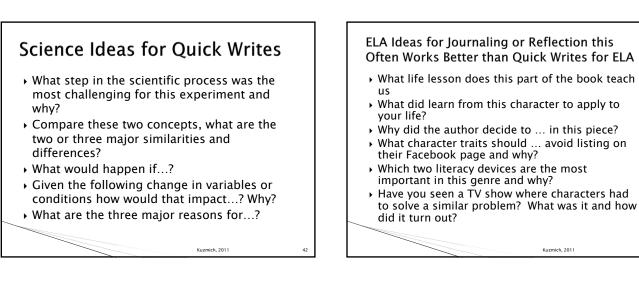
http://www.azleisd.net/education/components/scrapbook/default.php?sectiondetailid=16464 (Thinking Maps for Smart Boards)

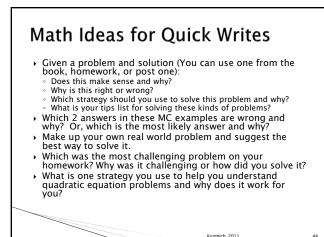
What are Quick Writes?	Conditions for Quick Writes
<ul> <li>Given a prompt,</li></ul>	<ul> <li>Students need paper,</li></ul>
students write for	note card, or sticky
one to three	note that can be turned
minutes <li>Prompts are</li>	in quickly <li>Don't grade, sort for</li>
specific and about a	thinking about content <li>Can give points for</li>
part of the learning	completion if needed <li>Use as an informal</li>
from today or	check for
yesterday	understanding

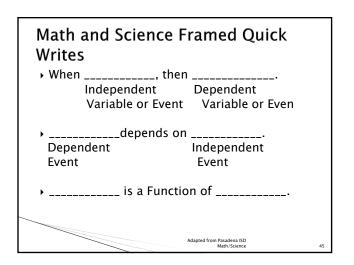


Kuzmich 2011









#### Quick Writes for Math By Lin Kuzmich Copyright 2011 from <u>Stretch Learning Handbook</u>

#### **Rules for Quick Writes:**

- 1 to 3 minutes or 3 to 5 minutes for struggling students
- One sentence or more at the secondary level
- Used to provide demonstration of thinking on parts, not the whole, of a topic, concept, or skill set
- Diagnostic. So, not necessarily for grading (give a set number of points for compliance if you wish)
- Allows teacher to check for understanding, adjust pacing and emphasis, offer assistance to those who need additional help or extension of learning

## Math Examples to use over and over, just insert the specific mathematical concept, procedure or process students are learning.

- Given a problem and solution (You can use one from the book, homework, or post one), ask any one of these:
  - Does this make sense and why?
  - Why is this right or wrong? Fix the wrong one.
  - Which strategy should you use to solve this problem and why?
  - What is your "tips" list for solving these kinds of problems?
- Given a multiple choice item in math that involves words not answers: Which 2 answers in these MC examples are wrong and why? Or, which is the most likely answer and why?
- Make up your own real world problem and suggest the best way to solve it or solve it.
- Which was the most challenging problem on your homework? Why was it challenging or how did you solve it?
- What is one strategy you use to help you understand quadratic equation (insert whatever you are studying) problems and why does it work for you?
- What step in the problem solving process for....(conic sections for example) was the most challenging for this test or assignment and why?
- Write a note to yourself on your homework. What is one thing you need to remember to do well on these types of problems?
- Compare these two problems. (Like a y-intercept and an x-intercept equation) What are differences or similarities in the steps to solve each type? (Select similarity or difference, not both it will take too long to answer.)
- What steps would we need to take to solve.... if...( After the word "if" include content specific change, such as: a numeral or fraction preceding a variable, add an exponent, a change in the mode, include parenthesis in a linear equation, or etc.)?
- Given the following change in variables or conditions, how would that impact...?
- Why? Or Why not?
- What are the three major reasons for...doing a problem or set of procedures a certain way?
- Explain.... Or Describe.... (Just keep it simple or it will take kids to long. Example if you ask for all the steps in a problem it might take 20 minutes. If you ask them to explain just step two or describe how they checked their answer it won't take as long and is more of "Quick" Write.)

#### Dear Math Teachers,

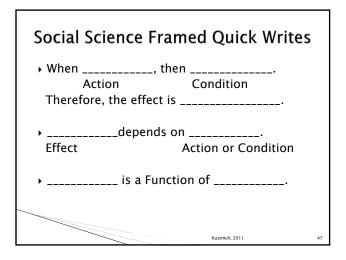
This will help you get started. Rotating between these and doing Quick Writes every other day or even every day improves overall assessment results. Tips: 1. with struggling learners, talk out the answer with a partner first, and then write it down; 2. add one to your closing or 3. Add one to a homework assignment now and then. Try the simpler ones first to get students going. Model a couple of answers to show them what "good" looks like. Remember that your question is too broad if it takes the average student more than 3 minutes or so to answer. Hope this is helpful, Lin Kuzmich

#### Social Science Ideas for Quick Writes

- > What was the most important cause of ... and why?
- Would you have done the same thing? Why or why not?
- > Which result, impact, or effect still influences us today and why?
- . Compare ... and ... in terms of the impact on the environment, people or economics

Kuzmich, 2011

- Why did ... happen?
- If .... did not happen, how would that change history?
- Would ... be your hero? Why or why not?



#### **CTE Examples for Quick Writes** · Compare these two solutions. Which would be best given your primary objective, the customer's wishes or your task? Create a brief dialogue with a customer who is complaining about... that solves the issue in an

- appropriate way. What would you do next and why?
- What is the sequence of steps for this task? • What are the usual causes of this type of problem?
- Create a solution for ...
- Why did ... happen?
- How could you prevent...from occurring?

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#### More on Writing Prompts and Questions

Essay Level -- or for younger students, paragraph(s):

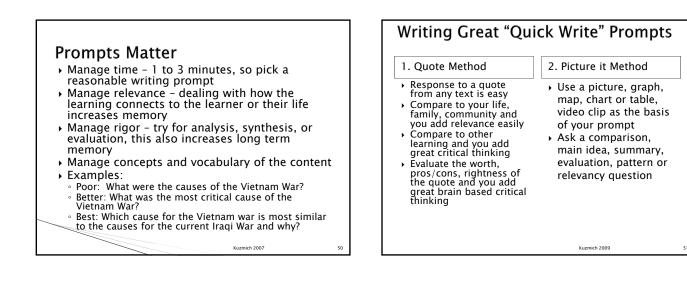
Why is ecology important? (use learning to write protocols and tools)

- Short Constructed Response: what is one thing you could do for the good of the environment? (use writing to learn, explain and describe protocols)
  - Would putting more trash barrels out on campus or placing posters up about trash work better and why? (Use writing to learn persuasive protocols)
- Polick Write:
   List 2 or 3 ideas to prevent or reduce littering, please justify each item on your list. (use quick write ticket out on small piece of paper or note card)

Kuzmich 2007

What are the differences among these prompts?

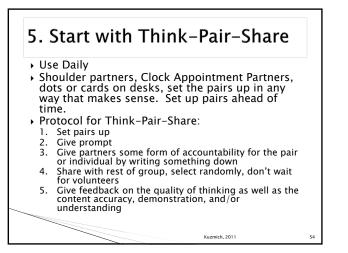
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3. Vocabulary Study	4. Sticky Content
<ul> <li>Take a vocabulary word and ask students to come up with examples, comparisons, uses for the word or words</li> <li>Categorize groups of words and write about the category title and what makes the words in that category fit</li> <li>Explain the opposite of a word and its use as well as the original word and its use</li> <li>Come up with an analogy using the word and explain the relationships between the word and the analogy</li> <li>Write a short poem (maybe a Haiku) or limerick about the word</li> </ul>	<ul> <li>Content sticks when you use it in writing about a relevant topic</li> <li>Ask: Why? How? What if?</li> <li>Ask students to justify or prove something</li> <li>Real world use for content is a great quick write and increases memory as well.</li> </ul>

Kuzmich 2009

# Your Turn Develop content specific quick writes you can use this week and next Try to get students to analyze, summarize, or evaluate in the quick write as much as possible Try for daily, if not go for 3 a week as a minimum Practice with students, show them expectations and examples ELA Only: Don't use in ELA if you already do journal entries frequently, if not try this or journaling, create prompts for upcoming weeks



#### Tips for Think-Pair-Share

#### Think

- Use a question that is quickly answered
- · Try to increase the critical thinking or rigor level of
- students with higher level questions
- Prepare questions or question stems that you can use again and again, just adding content specificity as needed

See your handouts for more ideas and uses for Think-Pair-Share

#### Remember to use this method <u>daily</u> or even a few times per class during initial instruction, review, and when adding complexity to already attained concepts.

Kuzmich, 2010

#### More Tips for Think-Pair-Share

#### Pair

- Have a system of partnerships set up ahead through marking on desks like dots or cards, proximity, or prearranged partners like Clock Partners
   Use proximity when time is short, try moving to partners
- when you have more time
- Share
  - $\,\circ\,$  Use random methods of calling on partner groups
  - Require a product before sharing such as a Quick Write, diagram chart picture answer to a question list etc.
  - diagram, chart, picture, answer to a question, list, etc.Call on at least three to four partner groups

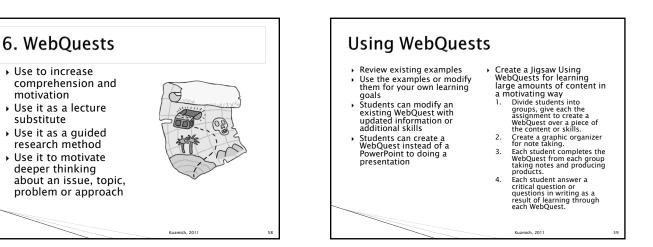
Kuzmich 2010

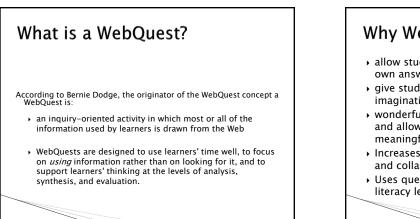
Use Pairs Squared for sharing for variety

# The Brain Remembers More with Dialog

- Remember that Think-Pair-Share is a brain friendly strategy you can use for processing pauses that must take place every 7 to 12 minutes during new learning presentations.
- Add writing or drawing to any stage of Think-Pair-Share to add individual accountability as well as increase individual rehearsal of thinking and learning.
- Develop 3 to 4 Think-Pair-Share prompts for an upcoming lesson where new learning will be delivered

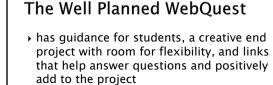
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#### Why WebQuests?

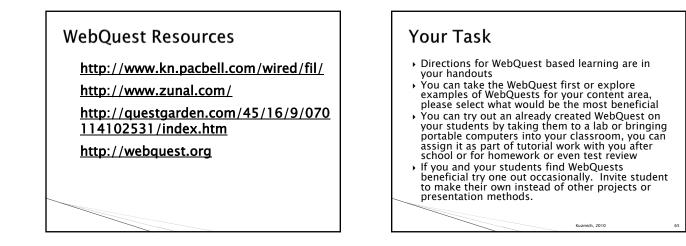
- allow students to explore issues and find their own answers
- give students a task that allows them to use their imagination and problem-solving skills
- wonderful way of capturing students' imagination and allowing them to explore in a guided, meaningful manner
- Increases comprehension, vocabulary, writing and collaboration skills
- Uses question, text access, text and media based literacy learning strategies and note taking skills

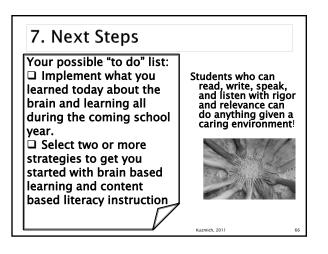


 designed for students to work independently, allowing the teacher to be a facilitator in students' learning rather than the sole dispenser of knowledge

# 6 Parts of a WebQuest

- 1. The Introduction orients students and captures their interest.
- 2. <u>The Task</u> describes the activity's end product.
- 3. The Process explains strategies students should use to complete the task.
- 4. The Resources are the Web sites students will use to complete the task.
- 5. The Evaluation measures the results of the activity.
  6. The Conclusion sums up the activity and encourages students to reflect on its process and
- encourages students to reflect on its process and results.





#### May Your Moments be Many!



"Educators are addicted to the moment when a student's eyes light up, when the teaching becomes learning. May your days be filled with such moments."

Philip Patrick Horenstein

Kuzmich, 2011



#### WebQuests

Webquests are an easy way to create an inquiry project that is rigorous and relevant to students. Given a relevant topic or task and analysis, evaluation or creation based thinking this is a Quadrant D project.

Webquests can take one period in a lab like the one you are doing today or several days. There are many prepared Webquests online that other teachers have already prepared. The link you will follow today for your Webquest is an easy and free site to create your own quest for students. Once you make it through this Webquest, feel free to start the creation of your own for students. Please keep the following rules of high quality Webquests in mind as you get started.

A Real WebQuest...

- is wrapped around a doable and interesting task that is ideally a scaled down version of relevant things that adults do as citizens or workers.
- requires higher level thinking, not simply summarizing. This includes synthesis, analysis, problem-solving, creativity and judgment.
- makes good use of the web. A WebQuest that isn't based on real resources from the web is
  probably just a traditional lesson in disguise. (Of course, books and other media can be used
  within a WebQuest, but if the web isn't at the heart of the lesson, it's not a WebQuest.)
- isn't a research report or a step-by-step science or math procedure. Having learners simply distilling web sites and making a presentation about them isn't enough.
- isn't just a series of web-based experiences. Having learners go look at this page, then go play this game, then go here and turn your name into hieroglyphs doesn't require higher level thinking skills and so, by definition, isn't a WebQuest.

"A Real Webquest" is from the following site: <u>http://webquest.org/index-create.php</u> This site is also a great source of information about Webquests, how to create them and how to find good existing quests.

Other suggestions for creating a great Webquest:

- 1. Develop one to three higher level critical questions about a relevant problem or project your students will answer as part of this question.
- 2. Develop a student self-evaluation as part of the quest. Have students self assess the quality of their thinking as well as any product they produce.
- 3. Try out one or two of the free WebQuest creators at <a href="http://webquest.org">http://webquest.org</a> before you select the one that will work for your content area and age of students. If your district blocks these sites you can ask them to reconsider. If not, you can use a linked document from Word, a shared document on Google or PowerPoint to create your quest.
- 4. Start by creating one that takes just a short time, say one period or 30-45 minutes.

#### **Getting Started**

Your WebQuest for today is located at the following link: Please complete as many of the tasks as you can in the time given. If you have time when you are finished, you may

- 1. Search for existing WebQuests for your content area, start here: <u>http://www.zunal.com/index-matrix.php</u>
- 2. Start creating your own WebQuest

http://www.zunal.com/webquest.php?w=118661 (control click to get to this link)

#### WebQuest Evaluation

A WebQuest is an inquiry-oriented lesson format in which most or all the information that learners work with comes from the web. WebQuests are an educational tool that works with any academic subject. If the WebQuest is well designed & has relative advantage it can be used to address the many learning levels you will find in your classroom. In addition a well designed WebQuest always incorporates differentiated instruction.

Search the internet & choose a WebQuest that is appropriate for your teaching goals. Evaluate the site using the following 9 questions.

- 1) Authority: What are the author's credentials?
- 2) Affiliation: Who sponsors the web site? Do they have any biases or agendas?
- 3) Purpose: Why is the web site there?
- 4) Objectivity: How objective is the information?
- 5) Audience: Who is the web site intended for?
- 6) Currency: How up to date is the web site?
- 7) Design: How effective is the site at getting its point across? How easy is it to navigate?
- 8) Relative Advantage: How does the information provided fit with my instructional purposes?
- 9) Learning Process: Will the web site lead my students to higher order thinking & learning?
- 10)What is the web address for this WebQuest?

			23	
LEVEL	Beginning	Developing	Accomplished	Score
Overall Aesthe	etics (This refers to the WebQuest page i	tself, not the external resources link	red to it.)	
	0 points	2 points	4 points	
Overall Visual Appeal	There are few or no graphic elements. No variation in layout or typography <b>OR</b> Color is garish and/or typographic variations are overused and legibility suffers. Background interferes with the readability.	Graphic elements sometimes, but not always, contribute to the understanding of concepts, ideas and relationships. There is some variation in type size, color, and layout.	Appropriate and thematic graphic elements are used to make visual connections that contribute to the understanding of concepts, ideas and relationships. Differences in type size and/or color are used well and consistently.	
	0 points	2 points	4 points	
Navigation & Flow	Getting through the lesson is confusing and unconventional. Pages can't be found easily and/or the way back isn't clear.	There are a few places where the learner can get lost and not know where to go next.	Navigation is seamless. It is always clear to the learner what all the pieces are and how to get to them.	
	0 points	1 point	2 points	
	There are more than 5 broken links, misplaced or missing images, badly sized tables, misspellings and/or grammatical errors.	There are some broken links, misplaced or missing images, badly sized tables, misspellings and/or grammatical errors.	No mechanical problems noted.	
Introduction		•	•	
	0 points	1 point	2 points	
Motivational Effectiveness of Introduction	The introduction is purely factual, with no appeal to relevance or social importance <b>OR</b> The scenario posed is transparently bogus and doesn't respect the media literacy of today's learners.	The introduction relates somewhat to the learner's interests and/or describes a compelling question or problem.	The introduction draws the reader into the lesson by relating to the learner's interests or goals and/or engagingly describing a compelling question or problem.	
Cognitive	0 points	1 point	2 points	
Effectiveness of the Introduction	The introduction doesn't prepare the reader for what is to come, or build on	The introduction makes some reference to learner's prior	The introduction builds on learner's prior knowledge and effectively prepares the	

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	what the learner already knows.	knowledge and previews to some extent what the lesson is about.	learner by foreshadowing what the lesson is about.
Task (The task	is the end result of student efforts not	the steps involved in getting there.)	
	0 points	2 points	4 points
Connection of Task to Standards	The task is not related to standards.	The task is referenced to standards but is not clearly connected to what students must know and be able to do to achieve proficiency of those standards.	The task is referenced to standards and is clearly connected to what students must know and be able to do to achieve proficiency of those standards.
	0 points	3 points	6 points
Cognitive Level of the Task	Task requires simply comprehending or retelling of information found on web pages and answering factual questions.	Task is doable but is limited in its significance to students' lives. The task requires analysis of information and/or putting together information from several sources.	Task is doable and engaging, and elicits thinking that goes beyond rote comprehension. The task requires synthesis of multiple sources of information, and/or taking a position, and/or going beyond the data given and making a generalization or creative product.
Process (The p	process is the step-by-step description of	how students will accomplish the tas	sk.)
	0 points	2 points	4 points
	Process is not clearly stated. Students would not know exactly what they were supposed to do just from reading this.	Some directions are given, but there is missing information. Students might be confused.	Every step is clearly stated. Most students would know exactly where they are at each step of the process and know what to do next.
Scaffolding of Process	0 points	3 points	6 points
	The process lacks strategies and organizational tools needed for students to gain the knowledge needed to complete the task.	Strategies and organizational tools embedded in the process are insufficient to ensure that all students will gain the knowledge needed to complete the task.	The process provides students coming in at different entry levels with strategies and organizational tools to access and gain the knowledge needed to complete the task.
	Activities are of little significance to one another and/or to the accomplishment of the task.	Some of the activities do not relate specifically to the accomplishment of the task.	Activities are clearly related and designed to take the students from basic knowledge to higher level thinking.

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	0 points	1 points	2 points	
Richness of Process	Few steps, no separate roles assigned.	Some separate tasks or roles assigned. More complex activities required.	Different roles are assigned to help students understand different perspectives and/or share responsibility in accomplishing the task.	
	te: you should evaluate all resources link to and other off-line resources can and sh		ections other than the Process block. Also	note
	0 points	2 point	4 points	
Quantity of Resources	Resources provided are not sufficient for students to accomplish the task. <b>OR</b> There are too many resources for learners to look at in a reasonable time.		There is a clear and meaningful connection between all the resources and the information needed for students to accomplish the task. Every resource carries its weight.	
	0 points	2 points	4 points	
Quality of	Links are mundane. They lead to information that could be found in a classroom encyclopedia.	Some links carry information not ordinarily found in a classroom.	Links make excellent use of the Web's timeliness and colorfulness.	
			Varied resources provide enough meaningful information for students to think deeply.	
Evaluation		•	•	-
	0 points	3 points	6 points	
Clarity of Evaluation Criteria	Criteria for success are not described.	Criteria for success are at least partially described.	Criteria for success are clearly stated in the form of a rubric. Criteria include qualitative as well as quantitative descriptors.	
			The evaluation instrument clearly measures what students must know and be able to do to accomplish the task.	
Total Score				/50

Original WebQuest rubric by <u>Bernie Dodge</u>. This is Version 1.03. Modified by Laura Bellofatto, Nick Bohl, Mike Casey, Marsha Krill, and Bernie Dodge and last updated on June 19, 2001

#### ABOUT LIN KUZMICH

Lin Kuzmich is an educational consultant and bestselling author from Loveland, Colorado. She served Thompson School District in several roles as the Deputy Superintendent, Executive Director of Secondary and Elementary Instruction, Director of Professional Development and she was a building principal for nine years. Lin's school was named a 2000 winner of the John R. Irwin Award for Academic Excellence and Improvement. In addition, for the past decade she was involved in staff development through several universities and the Tointon Institute for Educational Change. Lin served as an Adjunct Professor and Instructor at Colorado State University and University of Northern Colorado in the Principal Preparation Programs. She is a Senior Consultant for the International Center for Leadership in Education. Lin also provides training and consulting to school districts around the country and presents at numerous national and international conferences. Lin Kuzmich can be reached at 970-669-2290 (home/office) 970-203-4176 (cell) or kuzenergy@gmail.com and her website is www.KuzmichConsulting.com

Lin's additional experience includes: Assistant Director of Special Education (1988-1991); Vision Specialist and Reading Teacher for Thompson School District (1979-1988). She also taught high school reading, high school and middle school English/Language Arts, K-12 special education and 4<sup>th</sup> - 6<sup>th</sup> grades for Denver Public Schools (1974-79). Lin earned the *Teacher of the Year Award* for Denver Public Schools in 1979 and was *Northern Colorado Principal of the Year in 2000* for Colorado Association of School Executives.

Lin currently works with schools and districts across the country that are struggling to meet the needs of diverse learners, the requirements of AYP and the changing educational practices needed for the future success of our students. Lin's work with schools improves achievement results for students and increases the capacity of staff. Lin is passionate about helping educators prepare today's students for a successful future.

#### Lin's Publications:

- <u>Stretch Learning Handbook- With Units and Strategies Aligned to Common Core State Standards</u> (2011) International Center for Leadership in Education
- "Manage the Molehill Before It Becomes a Mountain: Keeping Parent Interactions Productive for Students" in <u>Leadership for Family and Community Involvement</u> Edited by Cole, Blankstein and Houston for the Soul of Leadership Series (2010) Corwin Press
- <u>Stretch Learning: Rigor and Relevance for an Unpredictable World</u> (2010) International Center for Leadership in Education. (Multi-Media Kit)
- <u>Student Team That Get Results: Teaching Tools for the Differentiated Classroom</u> (2010) Corwin Press, co-author Gayle Gregory.
- "Test Preparation Strategies that Have High and Quick Payoff," (March 2010) <u>Successful Practices Network</u> <u>Monthly Online Publication</u>
- "Ensuring Access through Differentiated Instruction" in <u>The Special EDge, Vol. 21, Num. 3</u> Summer 2008, coauthored with Dr. Willard Daggett
- <u>Redefining Literacy in Grades 7-12: Strategies for Document, Technological and Quantitative Literacy</u> (May 2007) International Center for Leadership in Education. (Multi-Media Kit)
- <u>Teacher Teams that Get Results: 61 Strategies for Sustaining and renewing Professional Learning Communities</u> (January 2007) Corwin Press, co-author Gayle Gregory. (Bestseller)
- "Redefining Literacy for the 21<sup>st</sup> Century," (2006a) <u>Successful Practices Network Monthly Online Publication</u>
- "Tips for Credit Recovery Programs," (December 2006b) <u>Successful Practices Network Monthly Online Publication</u>
- <u>Differentiated Literacy Strategies for Student Growth Grades 7-12</u>, (2005b), Corwin Press, co-author Gayle Gregory. (Bestseller)
- <u>Differentiated Literacy Strategies for Student Growth Grades K-6</u>, (2005a) Corwin Press, co-author Gayle Gregory. (Bestseller)
- <u>Data Driven Differentiation in the Standards Based Classroom</u>, (2004) Corwin Press, co-author Gayle Gregory. (Bestseller)
- "Taking Professional Care of New Teachers," <u>CSDC Network News</u>, October 2001.
- <u>Data Driven Instruction</u>, (1998) Colorado: CBOCES.
- <u>Facilitating Teacher Evaluation in a Standards-Based Classroom</u>, (1996) Colorado: *CBOCES*, Co-authored with Randy Zila, Linda Gleckler and Pete Denzin.
- "Neurophysiological Development: A Review for Educators," <u>The Journal of Professional Studies, Vol. 5 No. 1</u>, Feb. 1980.