


Curriculum Mapping
101




Dr. Ann Johnson
ajohnson199@msn.com

What is Mapping?


Why Map?

- What are **basic tasks** schools carry out with Mapping?
- How can Mapping **impact student achievement**?
- How can Mapping serve as a **HUB** for all school improvement efforts?




FOUR PHASES for CURRICULUM MAPPING TRAINING

- Laying the Foundation
- Launching the Process /Getting Started
- Maintaining, Sustaining, and Integrating It into the System
- Advanced Mapping Tasks



I. Laying the Foundation

- The Prologue to Mapping
- Establishing the Reasons for Mapping
- Creating a Shared Vision/understanding
- Identifying Your Leadership Support Structure



What is Curriculum Mapping?



A path or course to run in small steps...

What is Curriculum Mapping?

a process for **collecting and maintaining an operational data base of the curriculum** in a school **and then** using it to improve student performance.



Curriculum Mapping is a verb.

Creating the **maps** themselves

...And then

Using them to make **instructional decisions**

What We Know About Effective Schools

A “guaranteed and viable curriculum is the **#1** school-level factor impacting student achievement.”



-Marzano, What Works in Schools

Current Curriculum

- What are the **strengths** of the current curriculum?
- What **changes** if made would better prepare your students for the 21st century?



Summary Report for 7th Grade Math Benchmarks Spring

FACTORING IN THE DATA

The Standards Problem


- 160 national and state-level standards documents (more than **2000 pages**)
- A synthesis yielded **255 standards and 3,968 benchmarks**
- Require an additional **15,465 hours** for students to learn them all
- **9 more years** of education

Factoring in the Future


- Kindle
- Blogs
- Wikis
- Twitter
- Facebook
- Google Docs
- Podcasts
- Artificial Intelligence
- YouTube
- Text messaging
- Online photo streams
- Google Earth
- Smart boards
- Semantic Web
- Web 2.0
- Media Grids
- Global Network

How can we use data and incorporate new discoveries, 21st Century Skills, new innovations, and new technologies to design a curriculum for the Future?


How can we use data and incorporate new discoveries, 21st Century Skills, new innovations, and new technologies to design a curriculum for the Future?



Reasons for Mapping....

- Common Language
 - Gain **information**
 - Avoid Repetitions
 - Identify **Gaps**
 - 21st Century Skills
 - Integration of Literacy
 - Address Deficit Areas
 - Higher-order Thinking
 - Other areas.....???
- 


ii. Launching the Process /Getting Started

- ▶ **Developing Consensus and/or Individual Maps**
 - ▶ Initiating the Review Process
 - ▶ Adapting the Process for Special Populations
 - ▶ Identifying and Choosing the Right Technology
- 

Types of Maps

Individual Maps

- Diary Maps
- Projection Maps



Collaborative Maps

- Consensus Maps
- Master Maps
- Essential Maps
- Core Maps
- District Maps

Consensus Map Template

Unit:
Grade or Subject:

Essential Questions	Concept/Content	Skills	District Benchmark Assessments	Standards

Individual Map

Unit:
Grade or Subject:

Essential Questions	Concept/Content	Skills	Assessments	Activities/ Instructional Strategies	Materials/ Resources	Standards

Curriculum Map 2009-2010
 Chief Trial School
 Baker, Cheryl / Math Geometry / Grade 8 (Middle School)

Essential Questions	Content	Skills	Assessment	Assessment (Links)	Standards
<p>Quarter 1: Tools of Geometry (Items 1, 3 Items)</p> <p>What is Geometry? Is there just one type of Geometry?</p>	<p>Geometric terms Basic constructions, specifically congruent segments, angles Real number computation</p>	<p>Formally define geometric terms. Recognize and explain the necessity for certain terms to remain undefined, such as point, line and plane. Given a property of points and lines, tell whether it is true in each of the four geometries. Estimate, compute, and solve problems involving real numbers, including ratio, proportion, and percent, and explain solutions. Use mental estimation and estimation to determine the reasonableness of answers when using technology. Use algebraic representations and functions to describe and generalize geometric properties and relationships.</p>	<p>Formally define geometric terms. Recognize and explain the necessity for certain terms to remain undefined, such as point, line and plane. Given a property of points and lines, tell whether it is true in each of the four geometries. Estimate, compute, and solve problems involving real numbers, including ratio, proportion, and percent, and explain solutions. Use mental estimation and estimation to determine the reasonableness of answers when using technology. Use algebraic representations and functions to describe and generalize geometric properties and relationships.</p>	<p>Test Chapter 1 Project Baffling Buckle Extended Problem Other Algebra Cumulative Review Chapter 1</p>	<p>Test Chapter 1 Project Baffling Buckle Extended Problem Other Algebra Cumulative Review Chapter 1</p>
<p>Quarter 1: Reasoning and Proof (Item 4, 3 Items)</p> <p>What is a "Proof" and how is it used?</p>	<p>Logical thinking, specifically conditional, biconditional Inductive, deductive proof Proof - congruent angles Mathematical communication using extended problems</p>	<p>Make, test and establish the validity of conjectures about geometric properties and relationships using counterexamples, inductive and deductive reasoning, and paragraphs or non-numeric proof and critiquing the comments made by others. Prove or disprove conjectures and solve problems. Apply reasoning processes and skills to construct logical verifications or counter-examples to test conjectures and to justify and defend algorithms and solutions. Apply properties of conditionals in real situations. Apply properties of a good definition. Formulate a problem or mathematical model in response to a specific need or situation. Determine information required to solve the problem, choose a method for obtaining the information, and set limits for an acceptable solution. Use algebraic representations and functions to describe and generalize geometric properties and relationships.</p>	<p>Make, test and establish the validity of conjectures about geometric properties and relationships using counterexamples, inductive and deductive reasoning, and paragraphs or non-numeric proof and critiquing the comments made by others. Prove or disprove conjectures and solve problems. Apply reasoning processes and skills to construct logical verifications or counter-examples to test conjectures and to justify and defend algorithms and solutions. Apply properties of conditionals in real situations. Apply properties of a good definition. Formulate a problem or mathematical model in response to a specific need or situation. Determine information required to solve the problem, choose a method for obtaining the information, and set limits for an acceptable solution. Use algebraic representations and functions to describe and generalize geometric properties and relationships.</p>	<p>Test Chapter 2 Other Algebra Cumulative Review Chapter 2</p>	<p>Test Chapter 2 Other Algebra Cumulative Review Chapter 2</p>

Unit Design Template

Unit Title: Problem-solving and Data Analysis
Grade Level or Course: 8th Grade Math

Standard(s): Statistics and Probability (S&P): Formulate questions, gather and interpret data, and make predictions.

GLE (s):

- Designing an investigation and collecting, organizing, or displaying, using appropriate scale, data in real-world problems using bar graphs, tables, charts, diagrams, or line graphs with whole numbers up to 50.
- Using information from a variety of displays.
- Using mode, median, or range with up to 10 pieces of data with a value of 10 or less Each.

Essential Questions:
 How can I analyze data to explain why?
 How can I gather information to interpret and justify my answer?

Concept/Content:
 Concept: Good mathematicians can solve and explain data using a variety of methods.

Content:

- Types of Data Displays:
 - Line graphs
 - Tables
 - Charts
 - Diagrams
 - Bar and line graphs
 - Venn diagrams
- Mean, median, range, minimum, maximum, and mode
- Methods to solve problems
- Justification of Arguments
- Conjectures/Interpretation of Data

Vocabulary/Specialized terms: justify, logical, support, interpret, analyze, calculate, line graphs, median

Unit Design Template

Skills and Integrated Skills:

- Designs an investigation to collect data
- Organizes or displays data using either bar graphs tables, charts, or diagrams using a scale appropriate to the data up to 50
- Identifies correct display of a given data set
- Calculates the mode, median, or range for a set of numbers
- Interprets information from tables, bar graphs, line graphs, circle graphs, or Venn diagrams to analyze data
- Uses specialized terms to explain their process and findings

Assessment(s):
 (i.e. performance tasks and other evidence)

- Creates and explain a graph that includes mean, median, and mode.
- Data strand test
- Excel project using data and analysis - create and explain

Learning Activities:

- Class survey to practice data collection strategies
- Create a graph activity
- Variables science lab

Materials and Resources:
 Math Journal work while in class, and teacher observation are also used to assess student understanding.
 Everyday Math Journal 1
 Everyday Math Template
 Everyday Math Masters Book
 Everyday Math Games
<http://illuminations.nctm.org/>

Creating Quality Maps...



Unit Title:

Essential Questions:

Concept/ Big Idea:

Content Topics/ Key Information:

Content

THE "WHAT" THAT IS TO BE TAUGHT

- Targeted facts and key information
- Content Topics
- Discipline, interdisciplinary, or student-centered
- Written in **noun form**



Unit: Data Analysis 5th Grade

Essential Questions:

Concept/ Big Idea:	<p>Content Topics/Key Information:</p> <ul style="list-style-type: none"> •Types of Data Displays: <ul style="list-style-type: none"> -Line graphs -Tables -Charts -Diagrams -Bar and line graphs -Venn diagrams •Methods to solve problems - make a picture or diagram •Conjectures/Interpretation of Data <p>Terms: Mean, median, range, minimum, maximum, and mode</p>
---------------------------	--

Unit: The Legislative Branch of Government 8th

Essential Questions:

Concept/ Big Idea:	<p>Content Topics/Key Information:</p> <ul style="list-style-type: none"> •Qualifications, duties, and powers of the members •Organization of the Legislative Branch •Bill into Law (steps, process, and effects on citizens) •Powers of the Legislative Branch •Relationship with other branches of government <p>Terms:</p>
---------------------------	---

Unit: Multiple Paragraph Essays 8th Grade

Essential Questions:

Concept/ Big Idea:	<p>Content Topics/Key Information:</p> <ul style="list-style-type: none"> •Thesis statement •Introductory paragraph •3-5 paragraph essay •Relevant details supporting evidence •Logical organization of ideas (e.g., order by chronology, importance,) •Main idea •Unity •Transitions •Sentence variety <p>Terms: organizational structures, compound-complex, personal style, controlled organization, unity</p>
---------------------------	---

Unit: Mapping Basics

Essential Questions:

Concept/ Big Idea:	<p>Content Topics/ Key Information:</p> <ul style="list-style-type: none"> •Definition •Components •Types of Maps •Sample Maps •Link to standards •Step-by-Step process
---------------------------	--

Using Concept(s)...to Sharpen the Focus

Concept:	Example(s):
<p>-A relational phrase or statement</p> <p>-sharpens focus and helps to determine what needs to be taught</p>	<ol style="list-style-type: none"> 1. Location determines a country's economic possibilities. 2. Teamwork promotes cooperation 3. Systems and interdependent components. 4. History repeats itself 5. Problems can be solved in different ways.

Unit: Data Analysis 5th Grade

Essential Questions:

Concept/ Big Idea:	<p>Content Topics/Key Information:</p> <ul style="list-style-type: none"> •Types of Data Displays: <ul style="list-style-type: none"> -Line graphs -Tables -Charts -Diagrams -Bar and line graphs -Venn diagrams •Methods to solve problems - make a picture or diagram •Conjectures/Interpretation of Data <p>Terms: Mean, median, range, minimum, maximum, and mode</p>
---------------------------	--

Unit: The Legislative Branch of Government 8th

Essential Questions:	
Concept/ Big Idea: The legislative branch of government is an arm of the democratic process.	Content Topics/Key Information: <ul style="list-style-type: none"> •Qualifications, duties, and powers of the members •Organization of the Legislative Branch •Bill into Law (steps, process, and effects on citizens) •Powers of the Legislative Branch •Relationship with other branches of government Terms:

Multiple Paragraph Essays 8th Grade

Essential Questions:	
Concept/ Big Idea: Writers use a variety of strategies to enhance their message and engage the reader.	Content Topics/Key Information: <ul style="list-style-type: none"> •Thesis statement •Introductory paragraph •3-5 paragraph essay •Relevant details supporting evidence •Logical organization of ideas (e.g., order by chronology, importance,) •Main idea •Unity •Transitions •Sentence variety Terms: organizational structures, compound-complex, personal style, controlled organization, unity

Unit: Mapping Basics

Essential Questions:	
Concept/ Big Idea: Mapping is a Two-sided Coin: Prescription and Diagnosis	Content Topics/ Key Information: <ul style="list-style-type: none"> •Definition •Components •Types of Maps •Sample Maps •Link to standards •Step-by-Step process

Unit Title:

Essential Questions:	
Concept/ Big Idea:	Content Topics/ Key Information:

The concept is sometimes difficult to state in the early phases of mapping.

“If you have difficulty stating the concept . . . Identify **three words that describe the focus of the unit; force these into a statement.”**



Essential Questions

Over-arching interrogatives that provide focus and engage students

- Organizers to **sharpen focus**
- Higher-level thinking
- **“Mental Velcro”**
- **Connections** beyond content being studied
- **“So why is this important”...?**

Which of the following are Essential Questions?

1. What makes a family a community?
2. What are the three main branches of the government?
3. Is the Civil War still going on today?
4. How is intelligence measured?
5. What do good readers do?
6. What are the parts of an insect?

Unit: Data Analysis 5th Grade

Essential Questions:

How can the collection, organization, interpretation, and display of data impact how data is interpreted?

Concept/ Big Idea:

The message conveyed by the data depends on how the data is collected, represented, and summarized.

Content Topics/Key Information:

- Types of Data Displays:
 - Line graphs
 - Tables
 - Charts
 - Diagrams
 - Bar and line graphs
 - Venn diagrams
- Methods to solve problems - make a picture or diagram
- Conjectures/Interpretation of Data
- Terms: Mean, median, range, minimum, maximum, and mode

Unit: The Legislative Branch of Government 8th

Essential Questions:

Why is the legislative branch of government an arm of the democratic process?
Why Congress? Is there a better way?

Concept/ Big Idea:

The legislative branch of government is an arm of the democratic process.

Content Topics/Key Information:

- Qualifications, duties, and powers of the members
- Organization of the Legislative Branch
- Bill into Law (steps, process, and effects on citizens)
- Powers of the Legislative Branch
- Relationship with other branches of government

Terms:

Unit: Multiple Paragraph Essays 8th Grade

Essential Questions:

What strategies can I use to help me be a more effective writer?
Why do writers pick a particular structure for writing?

Concept/ Big Idea:

Writers use a variety of strategies to enhance their message and engage the reader.

Content Topics/Key Information:

- Thesis statement
- Introductory paragraph
- 3-5 paragraph essay
- Relevant details supporting evidence
- Logical organization of ideas (e.g., order by chronology, importance,)
- Main idea
- Unity
- Transitions
- Sentence variety

Terms: organizational structures, compound-complex, personal style, controlled organization, unity

Unit: Mapping Basics

Essential Questions:

What is mapping?
How is mapping a Two-sided coin?

Concept/ Big Idea:

Mapping is a Two-sided Coin: Prescription and Diagnosis

Content Topics/ Key Information:

- Definition
- Components
- Types of Maps
- Sample Maps
- Link to standards
- Step-by-Step process

Unit Title:

Essential Questions:

Concept/ Big Idea:

Content Topics/ Key Information:

Skills

WHAT STUDENTS NEED TO KNOW OR BE ABLE TO DO IN ORDER TO DEMONSTRATE MASTERY OR UNDERSTANDING OF THE CONTENT

- Are specific, observable and measurable
- Include benchmark skills, critical skills, and 21st century skills
- Begin with **action verbs**....



Precision is Critical to a Successful Performance

Consider the precise skills needed for any performance:

- Basketball
- A Musical
- Art Show
- A Documentary



Examples of Precise Skills

- **Find** the main idea and supporting details
- **Estimate** sums and differences using rounding techniques to the nearest 1000.
- **Alphabetize** to the second letter
- **Interpret** data represented in a bar graph
- **Identify** root words, suffixes and prefixes
- **Label** the parts of an informative speech
- **Explain** the difference between fact and opinion
- **Locate** and **Identify** parts of a book: title page, table of contents, index and glossary
- **Compare and contrast** the benefits and limitations of a hybrid car and SUV
- **Define** the hypothesis and conclusion of an "if-then" statement
- **Analyze** four primary documents written by John F. Kennedy
- **Tell** time to the minute

Can you...



Predicted PBAE Status	Skills needed to move to next level
Meets	<ul style="list-style-type: none"> • Solve word problems containing several rates, proportions, or percentages. • Calculate or use a weighted average. • Apply rules of exponents. • Manipulate expressions and equations. • Solve quadratic and absolute value equations. • Find solutions to systems of linear equations. • Interpret and use information from graphs in the coordinate plane. • Use the distance formula and Pythagorean theorem. • Use properties of parallel and perpendicular lines to determine the equation of a line. • Use relationships involving area, perimeter, and volume to geometric figures to compute another measure. • Apply basic trigonometric ratios to solve right-triangle problems.
Exceeds	<ul style="list-style-type: none"> ○ Rearrange a formula before solving a problem. ○ Find mistakes in solutions to problems. ○ Find the best deal and use the result for another calculation. ○ Find areas of basic shapes. ○ Find the volume of a rectangular solid.

• Statements adapted from the ACT College Readiness Standards <http://www.act.org/standarc/index.html>.
 ○ These statements correspond to levels on ACT WorkKeys <http://www.act.org/workkeys/assess/foundational.html>.

Skills or Activity?

- **Compare and contrast** different types of cells.
- **Interview a local politician about his or her political contributions**
- **Create a poster that categorizes vertebrates and invertebrates**
- **Categorize insects into groups of vertebrates and invertebrates**
- **Read and take notes from non-fiction chapter**
- **Explain the steps in the problem solving process.**
- **List major events on a timeline of US History**
- **Develop a podcast that summarizes the key points in the text.**
- **Keep a fitness log to keep track of aerobic activities**
- **Summarize plot by describing the story problem, main events, and the resolution**
- **Compute the perimeter of simple geometric figures with unknown side lengths.**

21st Century Skills

- Critical Thinking
- Problem Solving
- Communication
- Collaboration
- Information Literacy
- Media Literacy

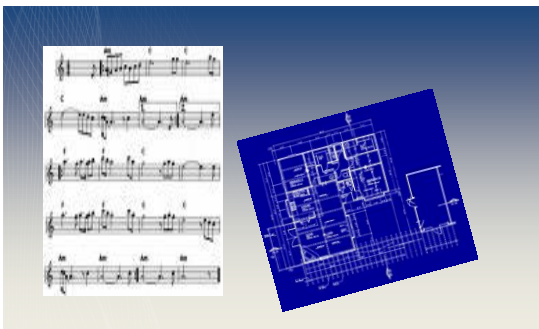


Points to Consider...

- Check for **clarity and precision**
- Check the **alignment** between all components on the map
- Check **level of understanding**



Terms Matter...



Curriculum Mapping A-Z Chart



A-B	C-D	E-F
G-H	I-J	K-L
M-N	O-P-Q	R-S
T-U	V-W-X	Y-Z

Three Tiers of Assessments

- Drill and practice
- Rehearsal
- Authentic performance



Some forms of assessments include...

7th Grade Math Multiple Choice Post Assessment

1. Which number is prime?
A. 69 B. 59 C. 49 D. not given
2. What is the least common multiple of 22 and 14?
A. 308 B. 154 C. 98 D. 77
3. Solve for n: $2n - 6 = 24$
A. 60 B. 30 C. 15 D. not given
4. Choose the composite number.
A. 11 B. 37 C. 51 D. 17



Constructed Response Assessment



12th Grade Reading Constructed Response

Discuss the relationship between the two cases, *Plessy v. Ferguson* (1896) and *Brown v. The Board of Education of Topeka* (1953). Be sure to review the similarities and differences between the cases and emphasize the relationship between the two. Give specific examples from both readings and draw from outside sources and/or personal experiences to support your answer.

Performance-Based Assessment

Third Grade Problem Solving Task

Your favorite job is a window washer hanging on the side of a building to clean windows. On a weekend trip with your family, you see three motels in a row. You notice that the Holiday Inn is 4 floors and each floor has a total of 7 windows. The Best Western has 6 floors and each floor has a total of 9 windows. The Comfort Inn has 8 floors and each floor has a total of 5 windows.

If you were to wash the windows of the Holiday Inn, how many windows would you wash?

Please solve this problem in more than one way. You must show your solution visually and with a number sentence. Materials will be provided if you would like to use them.

Evidence of Learning

<ul style="list-style-type: none"> ▶ Online journals ▶ Documentaries ▶ Surveys ▶ Webcasts from live sites ▶ Video Conferences ▶ Facebook ▶ Create models ▶ Legal briefs 	<ul style="list-style-type: none"> ▶ Hypothesis testing ▶ Tests: <i>essay, objective, short answer</i> ▶ Podcasts ▶ Blogs ▶ Digital music compositions ▶ Original plays ▶ Graphic organizers ▶ Web page ▶ Story Maps ▶ Online Courses
---	---

Figure 4.2 Matching Achievement Targets to Assessment Methods
From Rick Stiggins, *Student-Involved Classroom Assessment*, 3d ed, p 93 (Table 4.1) with some additions from Bena Kallick

TARGET TO BE ASSESSED	ASSESSMENT METHOD			
	Selected Response Short Answer	Extended Written Response	Performance Assessment	Personal Communication
Knowledge Mastery	Multiple choice, true/false, matching, and fill-in can sample mastery of elements of knowledge Constructed written response	Exercises can tap understanding of relationships among elements of knowledge	Not a good choice for this target—three other options preferred observation	Can ask questions, evaluate answers, and infer mastery, but a time-consuming option interview
Reasoning Proficiency	Can assess application of some patterns of reasoning Multiple choice Constructed written response	Written descriptions of complex problem solutions can provide a window into reasoning proficiency Persuasive essay Analytical essay Criticism Descriptive essay	Can watch students solve some problems or examine some products and infer about reasoning proficiency Observation Comparative observation	Can ask student to "think aloud" or can ask follow-up questions to probe reasoning Interview Personal essay
Skills	Can assess mastery of the knowledge prerequisites to skillful performance, but cannot rely on these to tap the skill itself.		Can observe and evaluate skills as they are being performed Observation Debate Forum choreography	Strong match when skill is oral communication proficiency; also can assess mastery of knowledge prerequisite to skillful performance interview
Ability to Create Products	Can assess mastery of the knowledge prerequisite to the ability to create quality products, but cannot use these to assess the quality of products		Can assess: (1) proficiency in carrying out	Can probe procedural knowledge and knowledge of attributes

The Legislative Branch of government is an arm of the democratic process.

- Qualifications, duties, and powers of the members
- Organization of the Legislative Branch
- Bill into Law (steps, process, and effects on citizens)
- Powers of the Legislative Branch
- Relationship with other branches of government

Skills

- ✓Describe the qualifications, duties, and powers of the Legislative Branch of government
- ✓Explain the organizational structure of the Legislative Branch
- ✓Identify the steps used in passing a bill into law
- ✓Analyze the effects of the Legislative Branch on citizens
- ✓Compare and Contrast the functions of the other branches with the legislative branch
- ✓Explain how the Legislative Branch is an arm of the democratic process
- ✓Develop an opinion using supportive ideas (reading skill)

Assessments

- Bill into Law Simulation
- Persuasive Paper – How will the law effect the people (students)?
- Essay Test over the Essential Questions
- Debate: Why have Congress, Is there a better way?
- Podcast on one of the key areas of the Legislative Branch of Government

Differentiating the Curriculum

- **Content/Topics** – varying the knowledge, skills
- **Process/Activities** – varying learning or strategies
- **Product/Assessments** – varying the complexity of the product
- **The Environment and/or Learning Styles** – varying teaching strategies and learning styles



III. Maintaining, Sustaining, and Integrating the System

- Establishing Benchmark Assessments
- Merging Assessment Results into Maps
- Integrating Active Literacy
- Developing An Implementation Plan



The CM Seven-Step Review Process:

1. Collecting the Data
2. First Read-Through
3. Small Like/Mixed-Group Review
4. Large Like/Mixed-Group Comparisons
5. Determine Immediate Revision Points
6. Determine Points Requiring Some Research and Planning
7. Plan for Next Review Cycle



(from Mapping the Big Picture: Integrating Curriculum and Assessment K-12; 1997, ASCD, Jacobs, HH.)

Curriculum Mapping is a verb.

Creating the maps themselves

...And then

Using them to make instructional decisions

Essential Questions	Content	Skills	Benchmark or Competency Expectations	Standards
What are the essential questions of this course?	What are the essential concepts of this course?	What are the essential skills of this course?	What are the essential benchmark or competency expectations of this course?	What are the essential standards of this course?
How do we know if students have learned this?	How do we know if students have learned this?	How do we know if students have learned this?	How do we know if students have learned this?	How do we know if students have learned this?

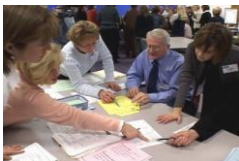
Small Mixed-Group Review

- Small Groups of 5 to 8 faculty members are formed
- Groups should be diverse (e.g. different grade levels and departments)
- Meetings should run approximately 1 and 1/2 hours
- The goal is to share individual findings and collect the data.



Like-Group (Horizontal Teams) and Mixed-Group (Vertical Teams) Reviews

- **Like-groups:** consist of teachers and support staff **within** a given discipline or same subject and/or grade level.
- **Mixed-groups:** consist of teachers and support staff **across** grade levels /or different disciplines.



Areas of Focus

1. Ah Hahs – What is something you learned?	2. Possible Gaps/Repetitions
3. Scaffolding of Skills	4. Questions/Clarifications

Areas of Focus

1. Ah Hahs – What is something you learned?	2. Possible Gaps/Repetitions
3. Evidence of Higher-order thinking	4. Questions/Clarifications

Essential Questions

- ✓ Why did the nation grow apart?
- ✓ What were the causes of the Civil War? Is it still going on today?
- ✓ How did slaves communicate their story?

Concept/Content

A number of factors caused the Civil War and divided a nation.

- The economic and social differences between the North and South
- State rights vs. Nation rights
- Maryland's position as a border state
- Underground Railroad
- Key people (Abraham Lincoln, Harriet Tubman, Fredrick Douglass, Harriet Beecher Stowe..)

Skills

- Explain the economic and social impact as a factor in the Civil War
- Differentiate between state and national rights and explain how it was a factor in the Civil War
- Describe life in Maryland as a border state as compared to the north and southern states
- Compare and contrast the attitudes and laws in border states versus nonborder states
- Identify main ideas using stick'em strategy
- Define the concept of the Underground Railroad
- Describe the life of a slave in Maryland and Montgomery County

Reading the Maps

Use the areas of focus in the quadrant:

- skim each map for that information
- look for **progression of skills**
- check **level of understanding** (Bloom's Taxonomy)
- check for **precise** language
- write comments directly on the map or jot your notes on the form

Beginning the Process...

Go 'round – each person in the group has a chance to highlight certain aspects of their map (one minute per person)

- something you forgot
- evidence of higher-order thinking or precise language
- a clarification
- something you want to point out
- a change you plan to make



Next...Data Collection Phase

- Replicate the quadrant on a slide or chart paper (appoint a recorder)

- The facilitator will begin with the **first map** and using a go 'round have each person **in turn** share information they have collected for each area of focus for that specific map. (The recorder will capture this data.) There is **NO DISCUSSION** during this process.

Areas of Focus:

-something you learned/something that became clearer to you

-any possible **gaps or repetitions**

-evidence of **higher-order thinking/scaffolding of skills**

-**questions/clarifications** needed

- Continue the process until the data has been collected for **each map**

When You have completed the process...

- Review the data
- Asterisk items you feel are priorities
- Address any questions
- Combine with another group – reach consensus on items to be addressed and priority areas
- Discuss possible ways to address the items you have asterisked



IV. Advanced Mapping Tasks

- Integrating 21st Century Skills
- Replacing Dated Content
- Upgrading to Contemporary Assessment Types
- Rethinking School Formats and Structures



Introducing Foveo Products

- Students labored over the creation of their product and ultimately chose high-end chocolate and water bottles due to their seemingly universal appeal. They chose the name “Foveo” because it means to support and nurture in Latin and the color orange because it is eye-catching and invokes the notion of caution.



Patrick F. Bassett, www.nais.org
Fay School & Saigon South International School

[Return](#)

The screenshot shows the 'High School Math' page on the adaptive curriculum website. It lists six types of math Activity Objects or lessons: 1. Guided Discovery, 2. Concept Development, 3. Problem Solving, 4. Dynamic Modeling, 5. Procedure Utilization, and 6. Simulated Exercises. Each item has a brief description of its purpose and how it helps students learn.

The screenshot shows the 'Web 2.0: Cool Tools for School' website. It features a grid of tool categories including Thinking Tools, Mechanium, Questionout, Invention at Play, Solver, and DecideAlready. Each category has a small image and a brief description of the tool's function.

The screenshot shows the 'Poll Everywhere' website. It features a large blue banner with the text 'Live Audience Polling' and a numbered list of three steps: 1. Ask your audience a question, 2. They answer using SMS text messages, Twitter, or the web, and 3. See real-time results in your web browser or PowerPoint. There is also a 'Play Demo' button and a 'Create Your First Poll' button.

Why use Poll Everywhere?

Collect data while interacting with your audience. Poll Everywhere creates stylish real-time experiences at events using mobile devices. Our service replaces expensive proprietary audience

Who uses Poll Everywhere?

Presenters, ad agencies, educators, non-profits and more. Google, McDonalds, Oracle, MIT, Virginia Tech, Notre Dame,

Upgrading Assessments...

- Take one of your **current assessments** and focus on higher-order thinking and 21st Century Skills....
- How might you **“upgrade”** it....???



Websites...

- <http://www.curriculumdesigners.com/>
- <http://www.curriculum21.com/>
- <http://www.sheskeylearning.com/>
- <http://shop.ascd.org/productdisplay.cfm?productid=109008> (Curriculum 21: Essential Education for a Changing World)
- Silvia Rosenthal Tolisano – Globallyconnectedlearning.com

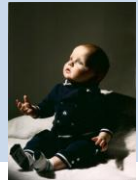


Curriculum 21 websites

- | | |
|---|--|
| <ul style="list-style-type: none"> • www.YouTube.com - Did you know 4.0... • http://www.ccsso.org/ • www.media-awareness.ca/ • www.medialit.org • www.cloudinstitute.org • www.clexchange.org • www.curriculum21.com • www.designshare.com • www.facingthefuture.org | <ul style="list-style-type: none"> • www.frankbaker.com • www.sheskeylearning.com • www.themetschool.org/Metcenter/The_Education.html • www.novemberlearning.com • www.ODTmaps.com • www.readwritethink.org/lessons • www.teachingmedialiteracy.com |
|---|--|

Even More Websites...

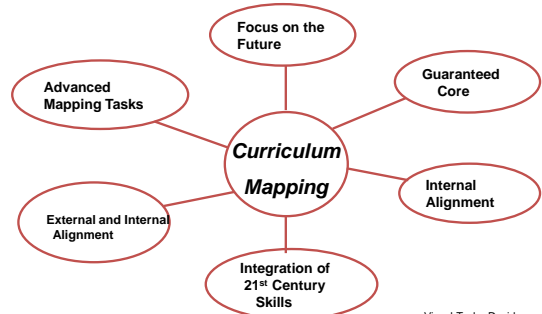
- <http://www.dangerouslyirrelevant.org/>
- <http://www.instituteforhabitsofmind.com/>
- <http://www.Cloudinstitute.org>
- <http://www.facingthefuture.org>
- <http://www.readwritethink.org/lessons>
- <http://www.novemberlearning.com>
- <http://www.creativelearningexchange.org>
- <http://www.asiasociety.org>
- <http://www.teachingmedialiteracy.com>



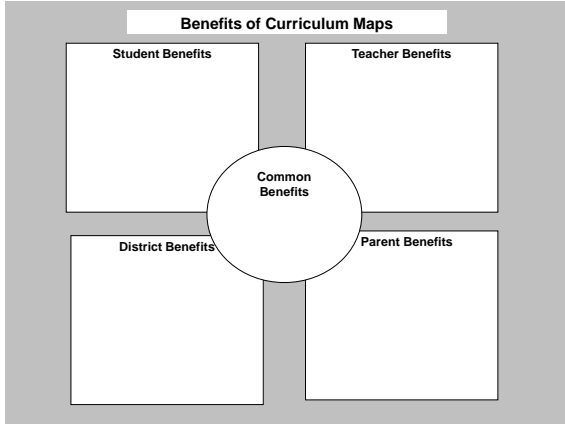
Websites cont.

- <http://www.frankbaker.com>
- <http://www.designshare.com>
- http://www.themetschool.org/Metcenter/The_Education.html
- <http://www.ODTmaps.com>
- <http://www.sustainableschoolsproject.org>
- <http://differentiationcentral.com/differentiationcentral.html>
- <http://www.designshare.com/index.php/home>

CM for Improved Student Performance



Hverle Visual Tools: David



Benefits of Curriculum Mapping

- a consistent core curriculum
- common terminology
- a tool/process to focus and inform instruction
- gaps/ repetitions
- articulation of skills
- HUB for all school improvement efforts
- Integration of 21st Century Skills
- Alignment of assessments and activities



98

CMI curriculum 21
Regional Conference
Milwaukee, Wisconsin

Curriculum Mapping Training of Trainers: A 21st Century Approach to Curriculum Design
April 21-23, 2010

CMI curriculum 21
Regional Conference
Indianapolis, Indiana

Curriculum Mapping Conference: Improving Student Performance through Alignment
June 9-11, 2010

NATIONAL CURRICULUM MAPPING INSTITUTE XVI
CURRICULUM 21: Mapping the Future for Our Learners
July 13-17, 2010 - Sarasota Springs, FL

CMI 21

Curriculum for the 21st Century

Getting Results with Curriculum Mapping

CURRICULUM 21 Core of 21st Century Skills

Mapping Big Pictures
Aligning Curriculum & Assessment to 21st Century Skills

ACTIVE LITERACY ACROSS the CURRICULUM
A Strategy for Student Writing, Reading, and Learning

Curriculum Mapping PLANNER

Ann Johnson
AJOHNSON199@MSN.COM