

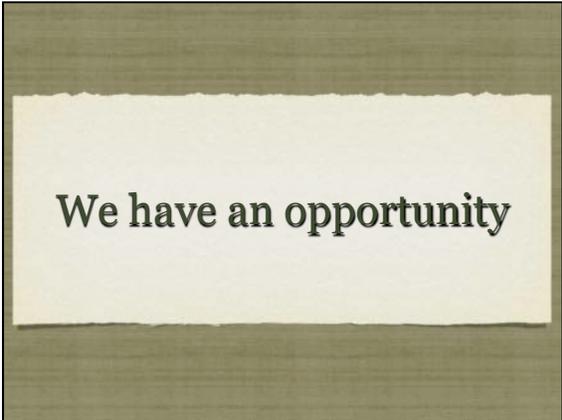
The integration of the new literacies: DIGITAL MEDIA GLOBAL



New standards for K-12 globally.



New college and university proficiency standards edTPA



Session Goals

1) Curriculum Mapping Basics

- Four Phase Implementation Model
- Mapping elements
- Brief history



• 2) Problems Mapping Addresses

- Gap analysis from assessment
- Alignment to mission/standards
- Integration of program design
- Eliminating repetition/ overlap
- Collaborative opportunities

3) Possibilities for employing curriculum mapping for Higher Education

- Possibilities /problems to address/edTPA assessments/ new standards and testing
- Possibilities for course coordination and planning / communication between departments and instructors
- Possible course inclusion of curriculum mapping experience for education majors





Where is your faculty?

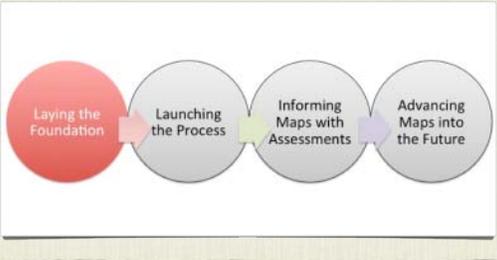
- PHASE I: Background on standards/ mission statement
- PHASE II: Curriculum Mapping
- PHASE III: Culture of Collaboration and Unpacking Assessment Results
- PHASE IV: Digital-Media-Global integration / Modern content

Green Flag

Culture of Collaborative Inquiry
Culture of Strategic Communication

Red Flag
Culture of Compliance





Phase I
Laying the Foundation

Laying the FOUNDATION

- Mission drive purpose
- Background on mapping
- Targeted standards and outcomes
- Leadership team structure to sustain the work



Standards- Basics

- They do not tell you WHAT to TEACH, WHEN to TEACH, HOW to TEACH
- They are proficiency targets not curriculum.
- Student progress on standards is revealed through a range of assessments.
- Students need to be directly involved in their own mastery and growth.



Importance of mission for curriculum mapping

Missing the Big Picture



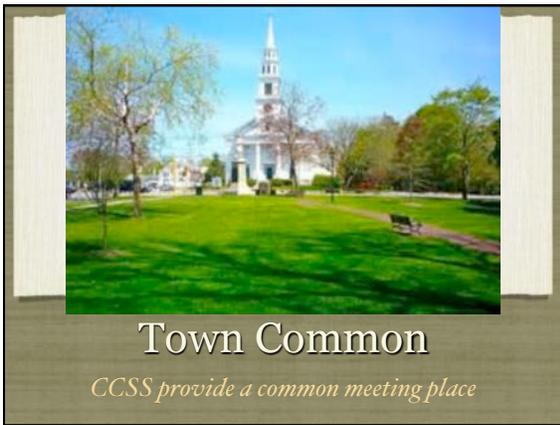
Mission embedded in maps

Owning the Mission

The concept of STAKEHOLDERS comes from claiming territory and owning it. Consider the notion of homesteaders. This will be a WRITING process activity and task.











Why Standards?

- Establish a "staircase" of increasing complexity in content and skills across the grades and subjects
- Provide building blocks for successful classrooms
- Ensure a consistent core curriculum for all students

COLLEGE & CAREER READINESS

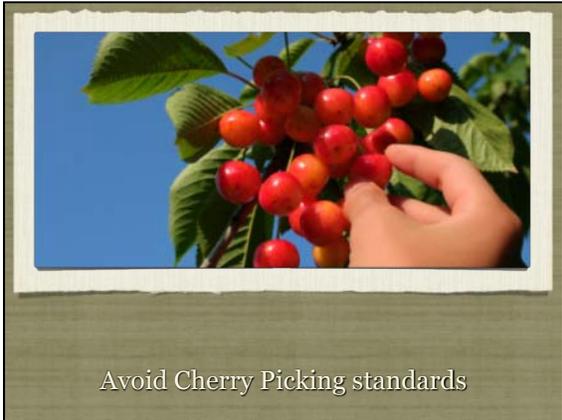
- 1) They demonstrate independence.
- 2) They build strong content knowledge.
- 3) They respond to the varying demands of audience, task, purpose, and discipline.
- 4) They comprehend as well as critique.
- 5) They value evidence.
- 6) They use technology and digital media strategically and capably.
- 7) They come to understand other perspectives and cultures.



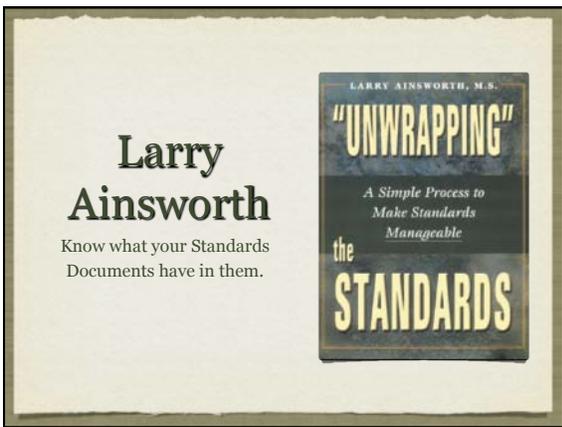
Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning.

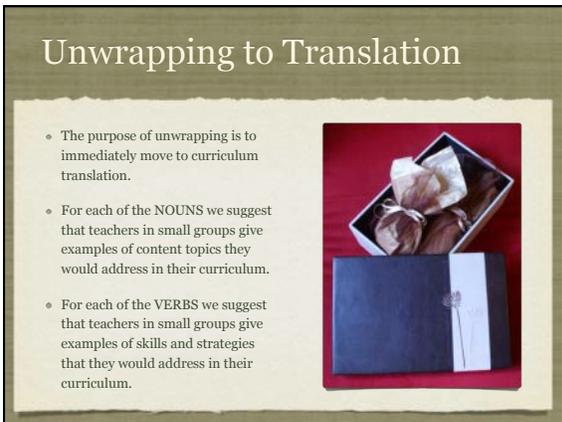




Avoid Cherry Picking standards



**Larry
Ainsworth**
Know what your Standards
Documents have in them.



Unwrapping to Translation

- The purpose of unwrapping is to immediately move to curriculum translation.
- For each of the NOUNS we suggest that teachers in small groups give examples of content topics they would address in their curriculum.
- For each of the VERBS we suggest that teachers in small groups give examples of skills and strategies that they would address in their curriculum.

TEXT TYPE & PURPOSE

Grade 8

- Write informative/explanatory texts to examine a topic and convey ideas, concepts and information through the selection, organization, and analysis of relevant content.
- Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.
- Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.
- Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.
- Use precise language and domain-specific vocabulary to inform about or explain the topic.
- Establish and maintain a formal style.
- Provide a concluding statement or section that follows from and supports the information or explanation presented.

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PERFORM OPERATIONS WITH MULTI-DIGIT WHOLE NUMBERS & WITH DECIMALS TO HUNDREDTHS

Grade 5

- 5. Fluently multiply multi-digit whole numbers using the standard algorithm.
- 6. Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
- 7. Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

Perform operations with multi-digit whole numbers & with decimals to hundredths

Grade 5

- 5. **Fluently multiply multi-digit whole numbers** using the standard **algorithm**.
- 6. **Find** whole-number **quotients** of whole numbers with up to **four-digit dividends** and **two-digit divisors**, using strategies based on place value, the **properties of operations**, and/or the **relationship between multiplication and division**. **Illustrate** and **explain** the **calculation** by using **equations, rectangular arrays, and/or area models**.
- 7. **Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings** and strategies based on **place value properties of operations**, and/or the **relationship between addition and subtraction**; **relate** the strategy to a written method and **explain the reasoning** used.

CC Informational Text Key Ideas and Details

Grade 4

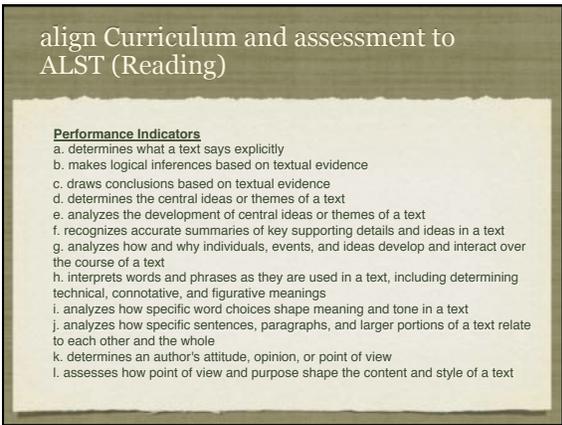
- Draw on details and examples** from a text to **support statements** about the text.
- Determine** the **main ideas and supporting details** of a text; **summarize** the text.
- Describe** the **sequence of events** in an historical or scientific account, including what happened and why, based on specific information in the text.

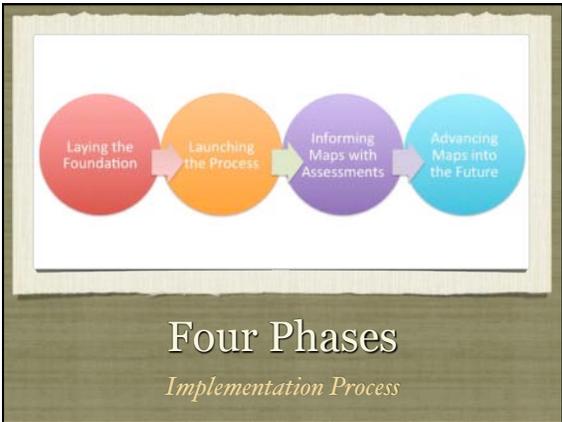
Informational Text Key Ideas and Details

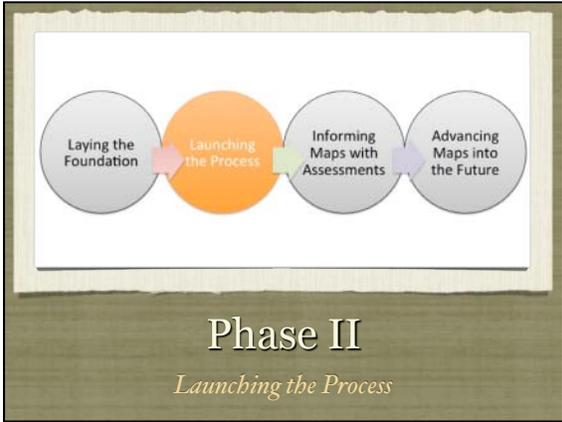
Grade 8

| Big Idea/ Major Concept | Essential Questions | Content | Skills | Assessment |
|---|--|--|---|--|
| <ul style="list-style-type: none"> Essays provide a format for a writer to communicate with readers by developing a topic through relevant details and appropriate support. Writers use a variety of strategies to enhance their message and engage the reader. The process of writing stimulates the thinking process. | <ul style="list-style-type: none"> Why do writers pick a particular format/structure for writing? What strategies can be a more effective writer? Why does the process of writing have a positive effect on both the reader and the writer? | <ul style="list-style-type: none"> 3-5 paragraph essay format Thesis statement Focused introductory paragraph Relevant details and supporting evidence Logical organization of ideas (e.g., order by chronology, importance, unity/cohesion) Transitional words and phrases Personal Writing Style/Voice Sentence variety Supportive and evaluative materials Vocabulary: Organizational structures, Sentence types (e.g., short, simple, compound, complex, compound-complex), Personal style, Controlled organization, Internal Unity, Voice | <ul style="list-style-type: none"> Write a 3-5 paragraph using the appropriate format Develop a clear and precise thesis statement as the main idea for the essay Design an interesting and focused introductory paragraph Support the development of the thesis with relevant details, facts, examples, and other specific information Select and organizes relevant content in appropriate order Includes a closing statement that summarizes the information presented Substitutes general terms with precise language to explain a topic Use a variety of transitional words and phrases to create cohesion and unity within and between paragraphs Apply a variety of sentences to create a certain effect in making your writing more interesting (e.g., short, clear sentences to create a sense of speed, longer, more complex sentences to create a sense of leisureliness.) Employ a variety of sentence structures and types to enhance meaning Evaluate your writing with the criteria and levels of performance on the writing rubric | <ul style="list-style-type: none"> 5 paragraph essay on focused topic Multiple paragraph essay using two different structures Sequence of ideas and comparison/contrast Graphic organizer – possible supporting details, information, data, charts, graphs Essay revision task focusing on improving transitions and precise language Self-assessment using essay rubric |









Launching the process

The leadership team:

- Clarifies purpose of mapping; different types of maps; key mapping elements
- Identify and choose a technology format and a common template
- Identify most valuable forms of assessment.
- Draft an Action Plan (Timeline) for introducing the mapping process to the faculty.





new leadership approaches
Mapping is collaborative leadership in action

What is Curriculum Mapping?

- Calendar-based curriculum mapping is a procedure for collecting and maintaining a data base of the operational curriculum in a school and/or district.
- It provides the basis for authentic examination of the data base.



Mapping is A Coin with two sides

- One side is the documentation –the maps themselves
- One side is the review process – examining and revising map cumulatively between teachers



Target Needs: Discussions, debates, and decisions will be based on

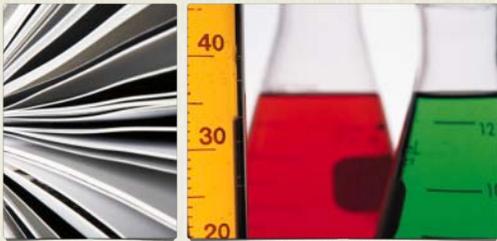
- What is in the best interest of our specific clients, the students in our educational setting?
 - Their ages
 - Their stages of development
 - Their learning characteristics
 - Their communities
 - Their aspirations
 - Their needs
 - The need for cumulative learning



Elements of Curriculum

- Big Ideas
- Essential Questions
- Content
- Skills
- Assessment





Content

The subject matter itself: key concepts, facts, events

Skills are Displayed on a map as:

- Precise skills that can be:
 - Assessed/measured
 - Observed
 - Described in specific terms
- Skills are action verbs...
- Skills scaffold over time
- Unlike general processes



On Maps, Assessments are the Major Products and Performances:

- Assessment is the demonstration of learning
- Assessment is the observable evidence of the CC STANDARD
- They must be listed as defined nouns:
- Tangible Products or
- Observable Performances



students demonstrate standards

DIFFERENT TYPES of performance provide different types of evidence



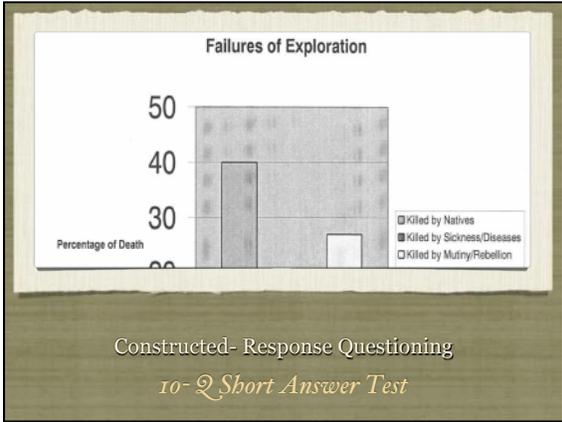
European Exploration Final Exam

Multiple Choice Section:

1. This is the great Spanish conquistador who, with a couple hundred Spaniards conquered the Aztec Empire in Mexico:
a. Hernan Cortes b. Hernando de Soto c. Francisco Pizarro d. Robert La Salle
2. This spice comes from the bark of a tree, either in sticks or powder, and is rusty-brown in color, found in South Asia and the southeast Asian islands, and is used for a variety of medicinal purposes:
a. pepper b. cloves c. ginger d. cinnamon
3. During the Renaissance period the Europeans began to build bigger and better ships that could

Selected Response

Multiple Choice- 50 QMC Quiz



Collection of Assessments:

- Portfolios
- Anthologies
- Recordings of observable performances

Formative and Summative ASSESSMENTS reveal:

- Proficiency of targeted skill development
- Knowledge and insight into content

Current Trends: Merging assessment data into maps

- New versions in mapping software are linking to assessment data
- Links to assessment data
- Tabs to differentiated curriculum



• THE ASSESSMENT:

- ☐ Is designed to elicit direct, observable evidence of the degree to which a student can independently demonstrate the targeted CCSS.**
- 2 The content prompt/ question is clear and essential.
- ✓ ☐ Assesses student proficiency using methods that are accessible and unbiased, including the use of grade level language in student prompts.**
- ✓ ☐ Includes aligned rubrics, answer keys, and scoring guidelines that provide sufficient guidance for interpreting student performance. **
A unit or longer lesson should:
 - ☐ Use varied modes of curriculum embedded assessments that may include pre-, formative, summative and self-assessment measures.

Essential Questions

Essential questions provide focus and direction to engage learners in fulfilling the mission.



Essential Questions Encourage:

- New thinking
- Genuine inquiry
- Fresh insights
- Stimulating ideas
- Motivated learners
- Active debate
- Intellectual engagement



Essential Questions

- **A Form of**
- **Mental Velcro**

- A literacy tool
- An instructional focus
- An aid for knowledge retention



How can we organize and frame essential knowledge?

Big Ideas

- Supported by specific and salient facts, information, findings, observations. **IMPORTANT** to note that these very facts, information, findings, observations will change with time. **KNOWLEDGE** grows

Essential questions should align with Key Curriculum Elements



- Content
- Assessment
- Skills



**WHAT IS A
BIG IDEA?**
Why is it so critical
to learning &
mapping?



A "big idea" is a concept stated as a relational statement that provides the focus and basis for acquiring knowledge.

Concept based learning sustains long term recall of facts vs. isolated fact base learning.

Examples of BIG IDEAS



A history unit on Ancient Egypt might focus on the concept:

The geographical location of a culture largely determines its social, political and economic possibilities.



A science unit on the Rainforest might focus on the concept:

In the natural world there are systems comprised of interdependent component parts.

REFINING the content idea

- Revisiting the content section .
- Revisiting it whether it is based on a topic, theme, issue, problem, or work.
- REFINING and FOCUSING the content using a set of essential questions.

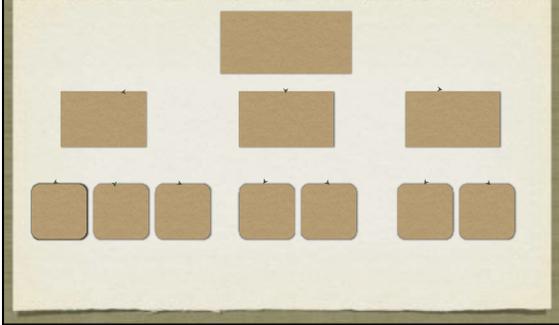


designing essential questions

- Structure the unit around 1 to 4 essential questions
- Use questions as the scope and sequence of unit
- Embrace the appropriate standards



Essential Questions as an Organizer





ESSENTIAL QUESTIONS are Curriculum Chapters

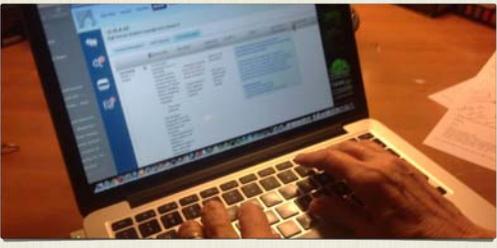
Criteria for Essential Questions:





What are quality demonstrations of student learning? What do exemplary units look like?

define quality

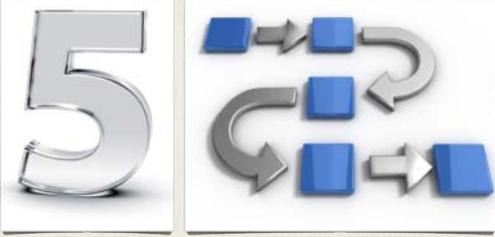


UNIT or Course **DRAFT**



Use mapping Rubrics

Important feedback: from a range of colleagues



Review maps for:
Five Types of Alignment



Internal
The elements in a teacher or district consensus curriculum map align to one another.



Cumulative
The curriculum maps build year to year; class to class K-12



To Students

Curriculum and assessment maps are specifically designed to match the needs of specific learners in specific locations.



Global

The aims and actions of our school curriculum and programs will help our learners connect to global communities.

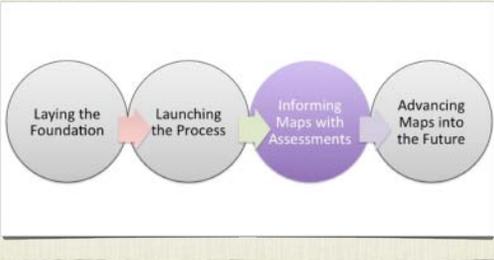


External

The curriculum and assessment maps align to external standards and expectations.

Green Flag
Culture of Collaborative Inquiry
Culture of Strategic Communication





Phase III
Informing Maps with Assessments

Informing maps with assessment

Sustaining and Integrating the System:

- Establishing benchmark assessments
- Informing maps with assessment results
- Ensuring alignment



Diagnosis
finding what our learners need
from the assessment data



Prescription
revising our maps
collaboratively to respond to
those targeted needs





*The purpose of assessment
is to provide FEEDBACK*

only the student can improve
his or her performance



"Team learning is vital because teams, not individuals, are the fundamental learning unit in modern organizations"

Peter Senge: The Fifth Discipline

What is Collaborative Inquiry?

Collaborative inquiry is a sustained process of investigation and action that empowers teachers to improve student learning, close the achievement gap and develop school wide leadership.



The Collaborative Inquiry Process Is:

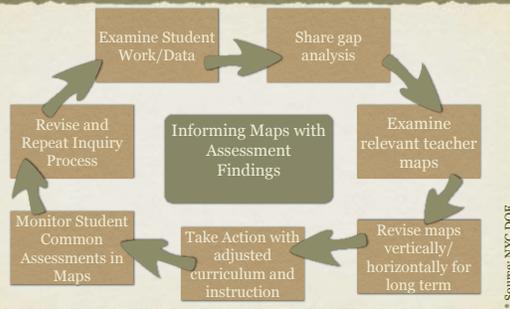
| | | | | |
|---|---|---|---|---|
| Data Driven by demographics, assessment, previous maps |  | Lead by Strategic Selection of Teachers |  | Structured to Promote Distributed Leadership |
|  | Focused on Student Learning through a Range of Assessments |  | Designed to engage teams in creating researched based learning |  |

Collaborative Inquiry And Mapping



- The collaborative inquiry process supports each phase of the mapping process.
- Key element in sustaining the mapping process on both a school and district level.
- Focuses teachers on aligning assessment, curriculum, instruction, and professional development to generate school-wide improvement.

Collaborative InquirY with Maps



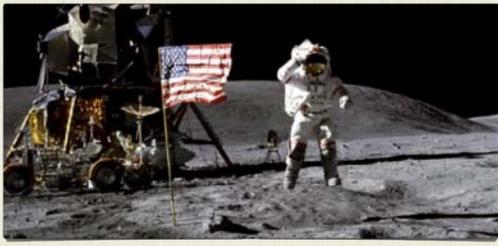
Strategic Grouping for Professional Reviews

- **Vertical – K-12** ; extended departmental meetings
- **Targeted Vertical-** examples: K-1; 3-6 ; 7-11; 10-12
- **Across grade level-** all third grade; all teachers of freshmen
- **Targeted cross grade level-** interdisciplinary 7th grade team
- **Extended team-** special area teachers, special ed staff, ESL
- **Feeder pattern-** in larger districts only those sharing same students; within school following student groups
- **Expanded local team-** virtual groupings (online); parents; community; internships
- **Global team-** Feedback and collaboration with meaningful worldwide educators and students.

Strategic grouping in Higher education?

- Within a department
- Across departments
- Individual students planning

- Others?



Reach new ground
as a team

*Guiding staff to benchmark assessments on our
consensus maps*

**Schools and
Districts**

are developing Consensus
Maps to replace guidelines

What are the implications for
higher education?



Truth
Reality Correctness
Nitty-gritty
Rightness Certain

Wrestling with Consensus
"acknowledging of truths" (Latin Roots)

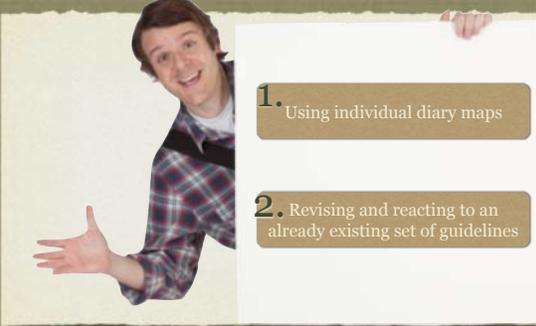
All mean the same...

- You need to determine what terms you will use at your school
- Master Map
- Consensus Map
- Essential Map
- Core Map
- Collaborative

Policy concerning:

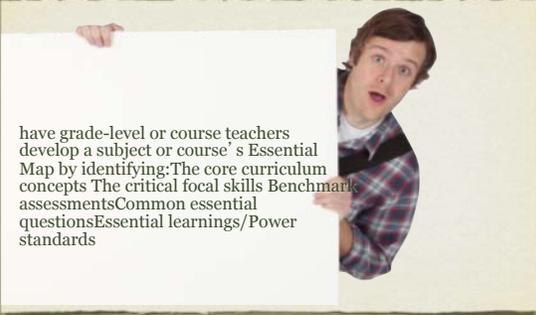
- Where is consistency critical for our students' learning?
- Where is flexibility equally as important?

Two Basic Approaches

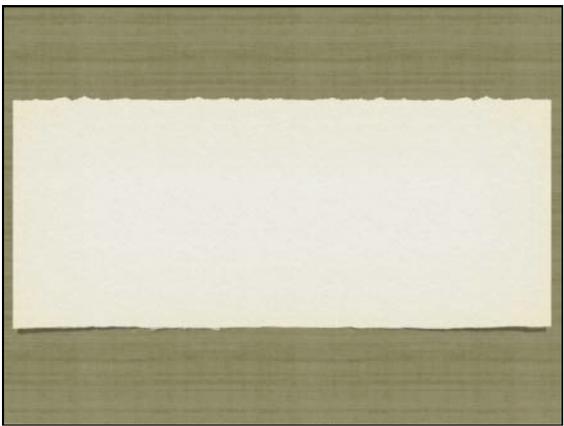


1. Using individual diary maps
2. Revising and reacting to an already existing set of guidelines

1. using individual diary maps



have grade-level or course teachers develop a subject or course' s Essential Map by identifying: The core curriculum concepts The critical focal skills Benchmark assessments Common essential questions Essential learnings/Power standards



What policies are governing your institution's assessment practice?

Formal Benchmarks

benchmark assessments

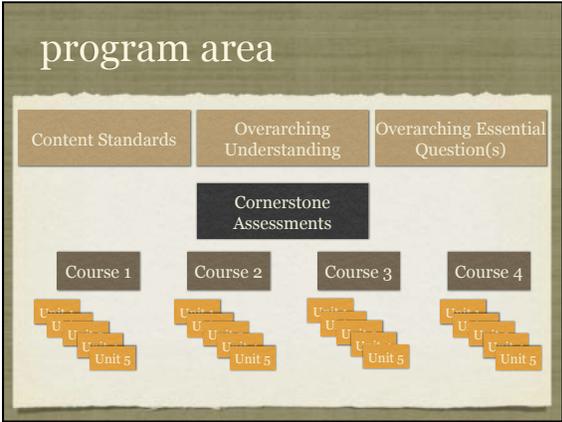
- Benchmarks can be designed on multiple levels: state tests, district, classroom tasks.
- A school establishes a common set of skills needing development.
- An internally generated benchmark assessment task is developed by teachers with the same protocols; the same timetable.



mapping cornerstone & Benchmark assessment

- The task should merge with the on-going curriculum naturally.
- Student products can then be evaluated both vertically and horizontally.
- Revisions in the curriculum map should reflect a few targeted skills needing help.
- Revisions should be applied thoughtfully to developmental characteristics of the learner.







vertical Collaboration

- At the heart of mapping and working effectively with the standards will be vertical collaboration.
- Higher Education articulation for each student's pathway
 - Thoughtful scaffolding of benchmark tasks
 - Attention to gap analysis

selected responses

• Choose from options that have already been determined and are provided for the student.

- Multiple Choice
- True/False
- Matching
- Short Answer Fill in



extended written Response

• Student is asked to respond in written form that can lead to media products or standard written assessment

- Thesis development
- Book critique
- Documentary Script
- Persuasive Essay
- Analytic Essay
- Descriptive Essay
- Simple research paper
- Complex research paper
- Narrative Script



performance assessment products

- Can be observed from three perspectives: observation during work, observation of work in process to final product of work.
- It must include scoring criteria in advance of the observation.
- Assessment of process would be dictated from the standard and the inherent learning process required to meet that standard.



Media assessments

- Skype/Google Hangout
- Analysis of recordings
- Video documentaries
- Podcast documentaries
- Video/Podcast narratives
- Website creation
- Media Creations/Digital Apps



personal & public communication

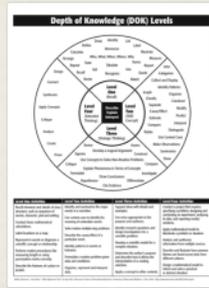
- Conversation
- Journal
- Portfolio
- Video casts
- Podcasts
- Email
- Oral examination
- Blogs
- Running Records
- Interactive Notebook

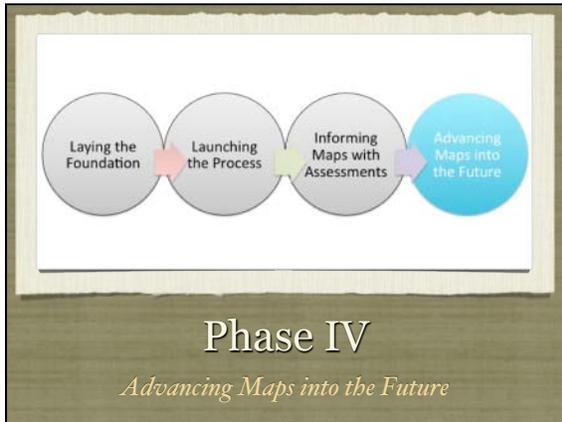


Highly structured and systematic opportunity for students to convey their learning either from student to student, student to teacher, and/or student to other assessors, or through their reflections.

Determine policy on depth of knowledge for your benchmark assessments

Inquiry based examination of student work in reference to DOK





recast content for timeliness

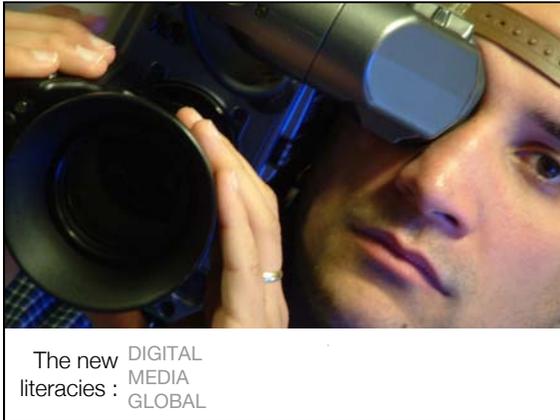
- Breakthroughs
- New Standards
- Contemporary issues
- International perspectives
- Modern forms of expression
- ..A deliberate need to replace and to shed dated curriculum.



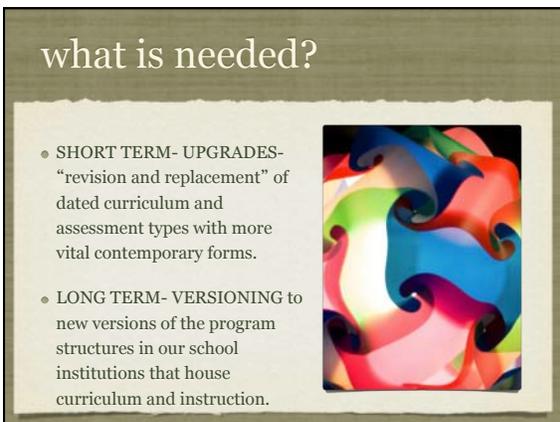
Advancing maps into the future

- Preparing for next standards from CCSSO
- Integrating 21st century skills
- Replacing dated content
- Upgrading to contemporary assessment types
- Map professional development
- Rethinking school formats and leadership protocols





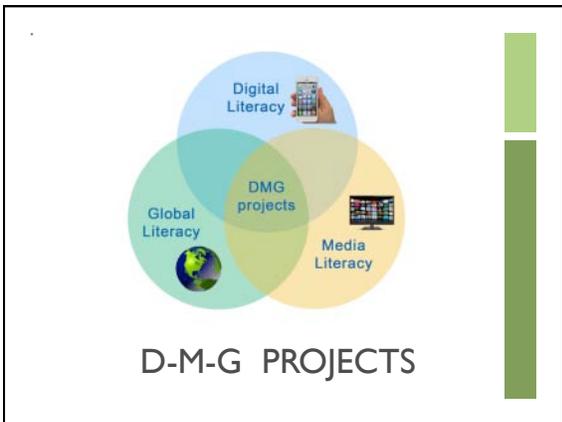








**NEXT GENERATION
SCIENCE STANDARDS** Dynamic cross disciplinary
themes



Schools Graduate School Projects Videos

High Tech High

San Diego, California
11 schools
Long term projects
Teachers Publish





1st Grade Little Bird Tale Books

1st grade students used their knowledge of symbiotic relationships in marine environments to build little bird tale books online. While completing the tales, students became illustrators, authors and speakers.



http://www.littlebirdtales.com/tales/view/story_id/211864
http://www.littlebirdtales.com/tales/view/story_id/213758/
http://www.littlebirdtales.com/tales/view/story_id/223148

Individual Tales: Lyb and Jessi http://www.littlebirdtales.com/tales/view/story_id/221919 Smith http://www.littlebirdtales.com/tales/view/story_id/221910
 Scarlett http://www.littlebirdtales.com/tales/view/story_id/221908 Keegan http://www.littlebirdtales.com/tales/view/story_id/221933

2nd Grade Podcasts

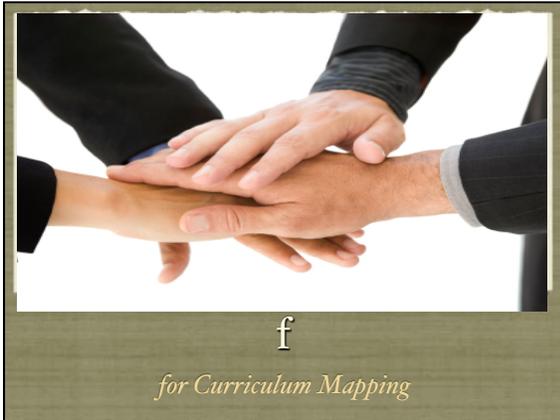
The 2nd grade classes studied the health of the coral reef during the Study of the Sea. Students cre-

[Elementary/Primary Projects](#) Sigsbee Charter School- Key West, Florida



Joining global Professional networks

<http://curriculum21.com>



TOP TEN REASONS to CURRICULUM MAP

- #10- Mapping is a systems wide planning approach: each teacher and administrator maps
- #9- Mapping provides immediate and strategic access to all maps in a school and between schools





- #8- Mapping is time efficient and eliminates unnecessary meetings by providing a virtual platform for information.
- #7- Collaborative Inquiry is the heart of the mapping process creating genuine PLC's for vertical/cross grade level reviews.

- #6- Maps ensure all critical elements are designed to support learning: content, skills, assessments, essential questions, vocabulary
- #5- Common Core Standards are visibly aligned in each element for a consistent and guaranteed curriculum.



- #4- Consensus Maps provide the "place" to monitor student performance assessments: the diagnosis
- #3- Consensus Maps are revised according to what assessment data reveals about students: the prescription



- #2- Diary maps are tailored to the specific needs of your students to provide a viable, differentiated curriculum.
- #1- Mapping keeps a school modern as they are upgraded to prepare learners for their future.



Post script: *lessons from an architect*

- Choices for the design
- Limits and possibilities
- Local zoning laws
- Meeting the needs of the users
- Quality of Construction
- Communication is essential
- Alignment !!!





<http://www.lumi-book.com>



www.curriculum21.com
