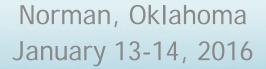
Supporting Instruction and Formative Assessment for College and Career Ready Standards (CCRS)

Central Comprehensive Center (C3)
South Central Comprehensive Center (SC3)
Center on Standards and Assessment Implementation (CSAI)







Welcome and Context Setting

Belinda Biscoe Boni
SC3 Director/C3 Principal Investigator
University of Oklahoma (OU) Associate Vice President
for Outreach





Preview of Day 1

Jennifer Watson
C3/SC3 Literacy Technical Assistance Coordinator





Introduction of CSAI Presenters

Donna Richardson
C3 Director/SC3 Technical Assistance Manager





CSAI Resources to Support Instruction and Formative Assessment

Norman, Oklahoma

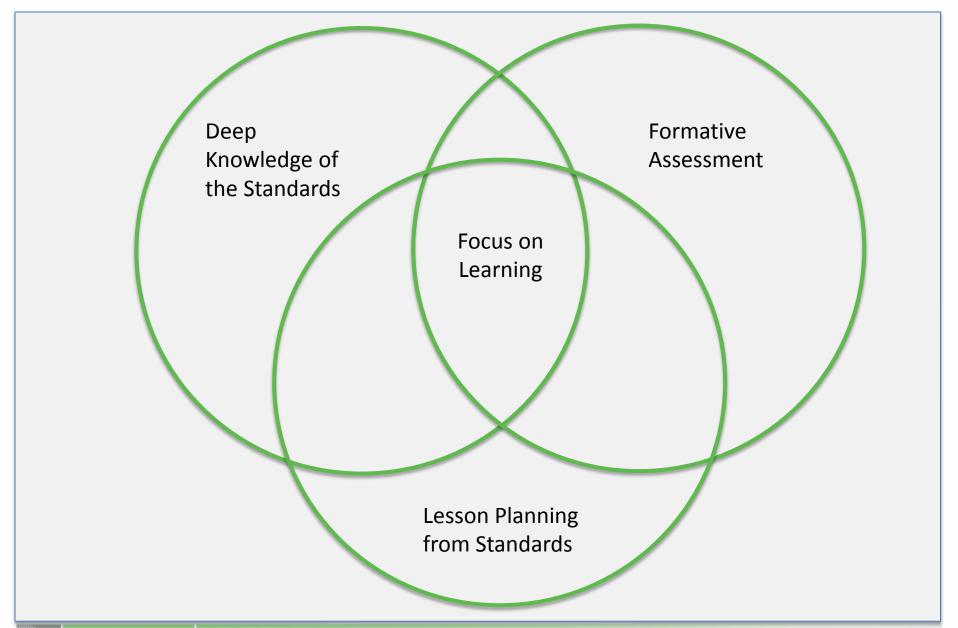
January 13-14, 2016



Resource: Goals

- Coach teachers' thinking
- Deepen teachers' content knowledge
- Develop connected learning pathways
- Create a coherent and accessible <u>process</u> of moving from the CCRS to daily classroom practice with formative assessment



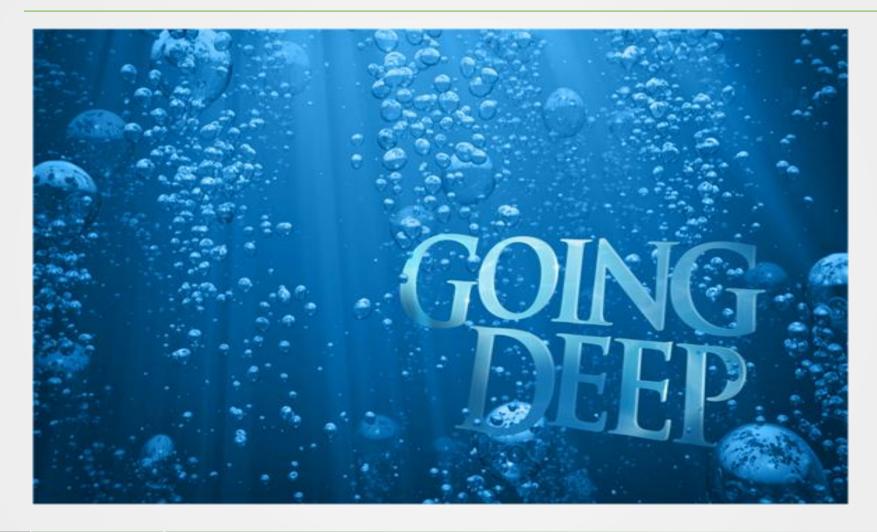




Current Context

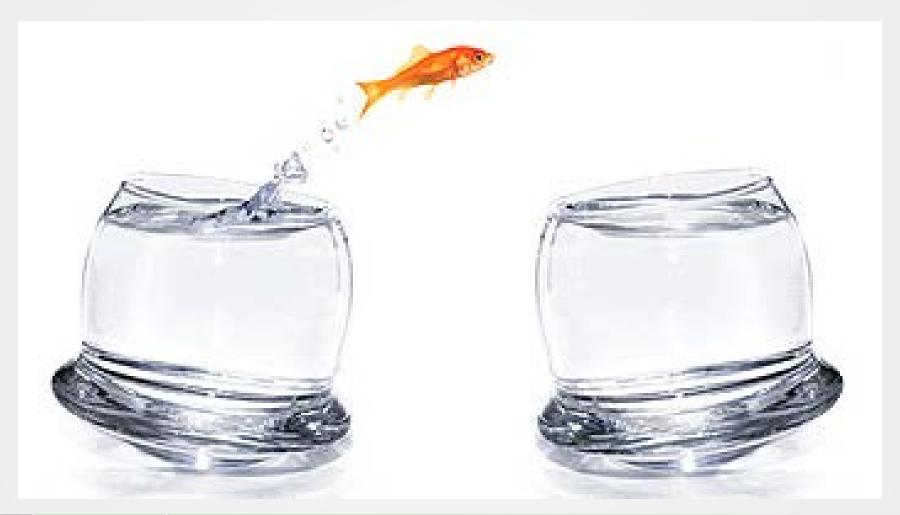


CCRS



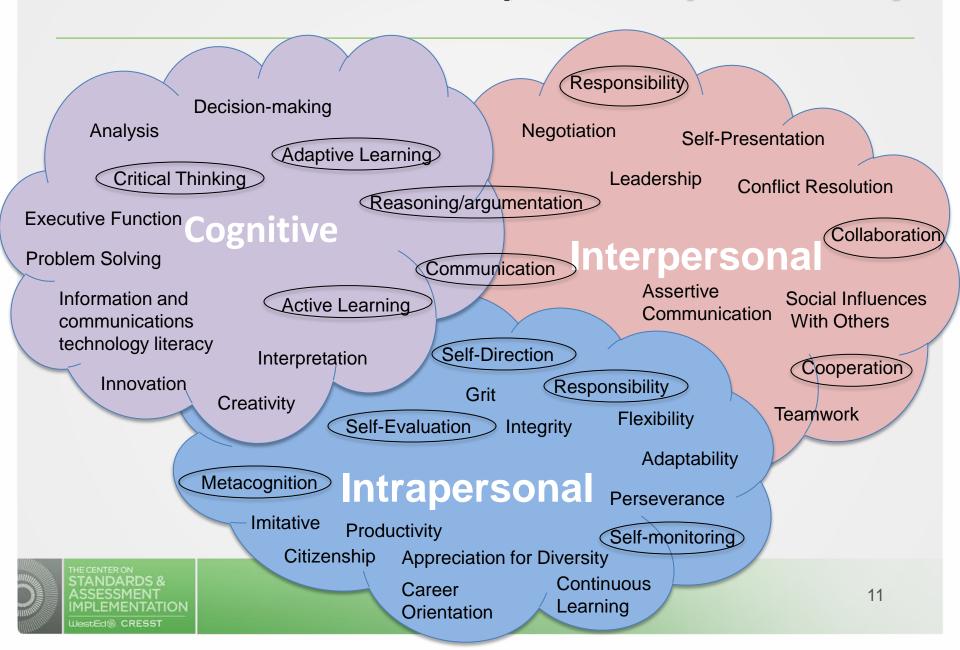


Transferable Knowledge and Skills





Three Domains of Competence (NRC, 2012)



Shifts in Practice





From: Traditional Lesson Paradigm

Review

Demonstration

Practice

(NCTM,2014)



Use and connect mathematical representations Teacher and student actions

What are teachers doing?	What are students doing?
Selecting tasks that allow students to decide which representations to use in making sense of the problems.	Using multiple forms of representations to make sense of and understand mathematics.
Allocating substantial instructional time for students to use, discuss, and make connections among representations.	Describing and justifying their mathematical understanding and reasoning with drawings, diagrams, and other represen-
Introducing forms of representations that can be useful to students.	tations. Making choices about which forms of
Asking students to make math drawings or use other visual supports to explain and justify their reasoning.	representations to use as tools for solving problems.
	Sketching diagrams to make sense of
Focusing students' attention on the struc-	problem situations.
ture or essential features of mathematical ideas that appear, regardless of the repre-	Contextualizing mathematical ideas by connecting them to real-world situations.
sentation. Designing ways to elicit and assess	Considering the advantages or suitability of using various representations when
J J	j

students' abilities to use representations

meaningfully to solve problems.

To:

ages or suitability of using various representations when solving problems.





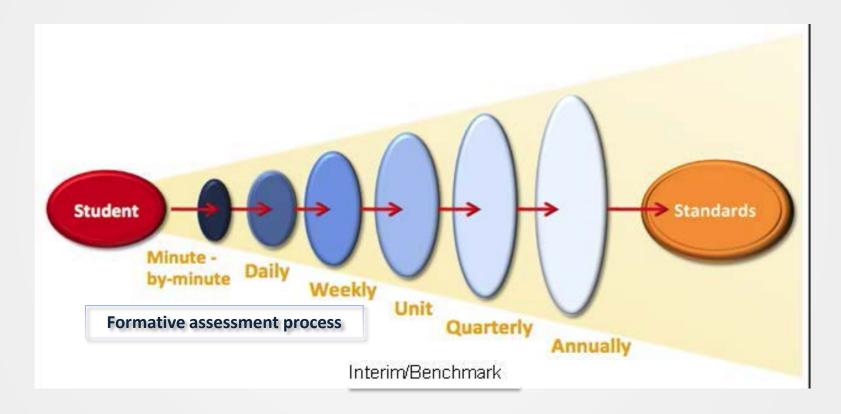
DEFINITIONAL CLARITY

One Size Does Not Fit All





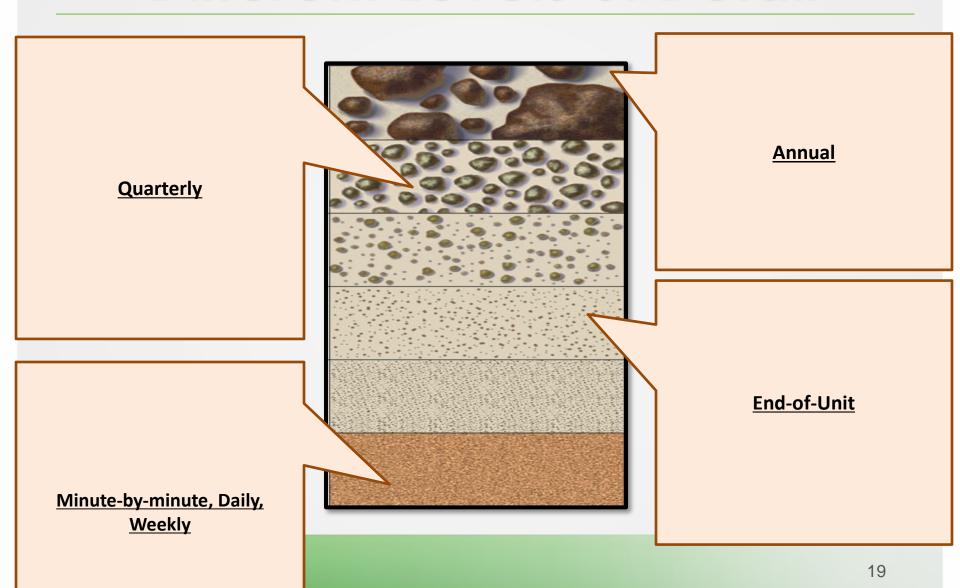
Assessment in the System



(CDE ELA/ELD Curriculum Framework, 2014, adapted from Herman & Heritage, 2007)



Different Levels of Detail



Read the definitions on Handout 1.

On your own, decide what are three key ideas about formative assessment.

Discuss why you made these selections in your table groups.

Formative Assessment Is.... generating evidence intentionally in the course of continuous

through observation, discussion,

gauging how student learning is

progressing while students are in

teaching and learning,

analysis of tasks/work

the process of learning

teaching and learning

using evidence to inform

immediate or near-immediate

engagement with learners

questioning, and review and

Formative Assessment Is

predetermined basis (e.g., quarterly,

evaluating student achievement at

the end of a sequence of learning

using test data to make decisions

about medium- and long-term

instructional/curricular plans

giving a test at the end of an

instructional cycle or on a

Not....

annually)

Formative Assessment Is....

Formative Assessment Is Not....

providing ongoing descriptive feedback to learners

assigning grades /reporting achievement

involving students in the assessment process through peer and self-assessment

telling students the results of a test

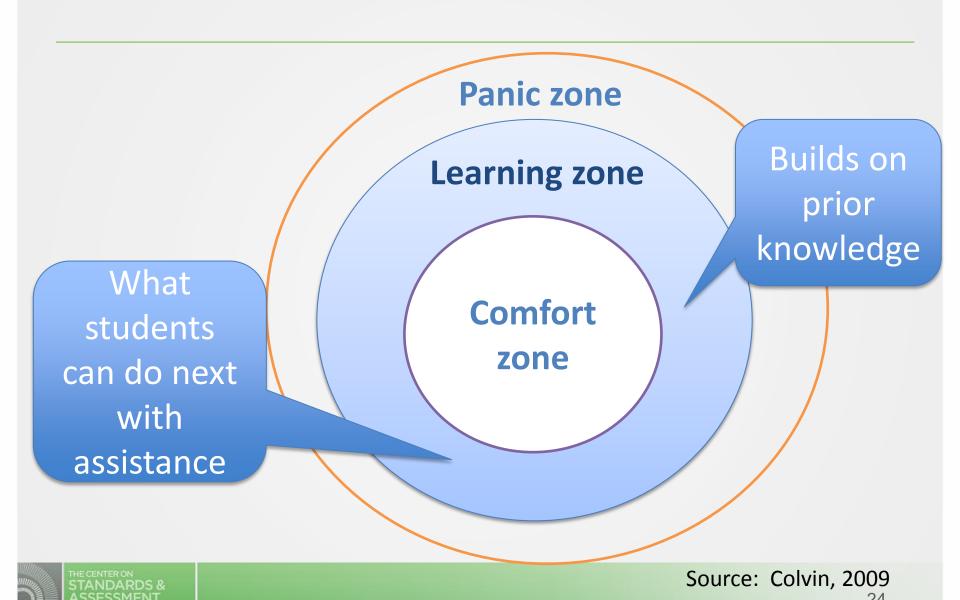


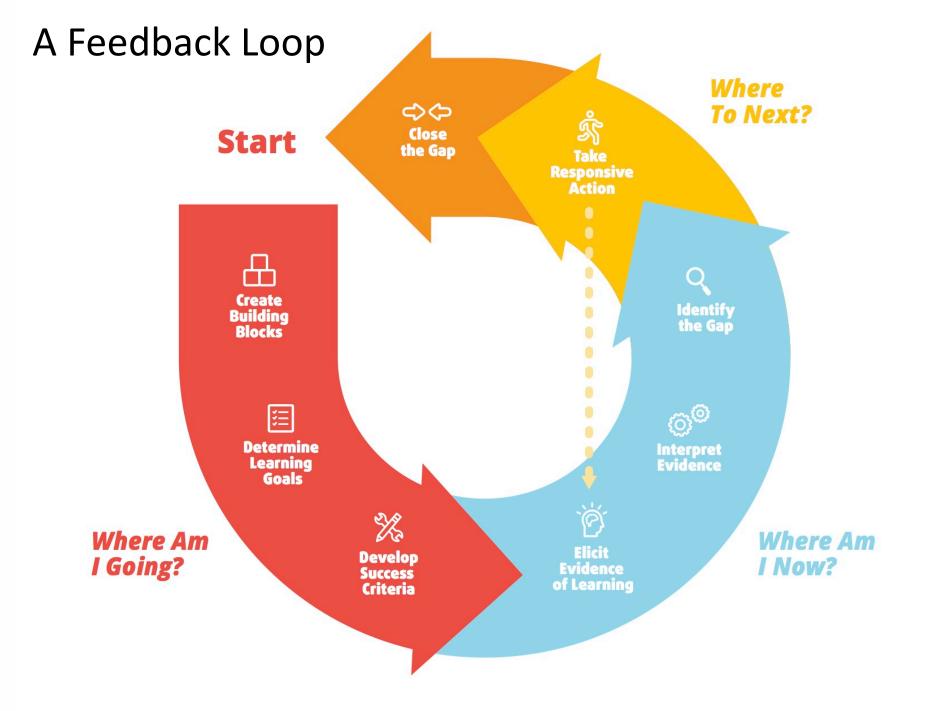
Focus on Formative Assessment

Formative assessment occurs hand in hand with the teaching and learning process and is an integral component of teaching and learning for transfer.

(NRC, 2012)









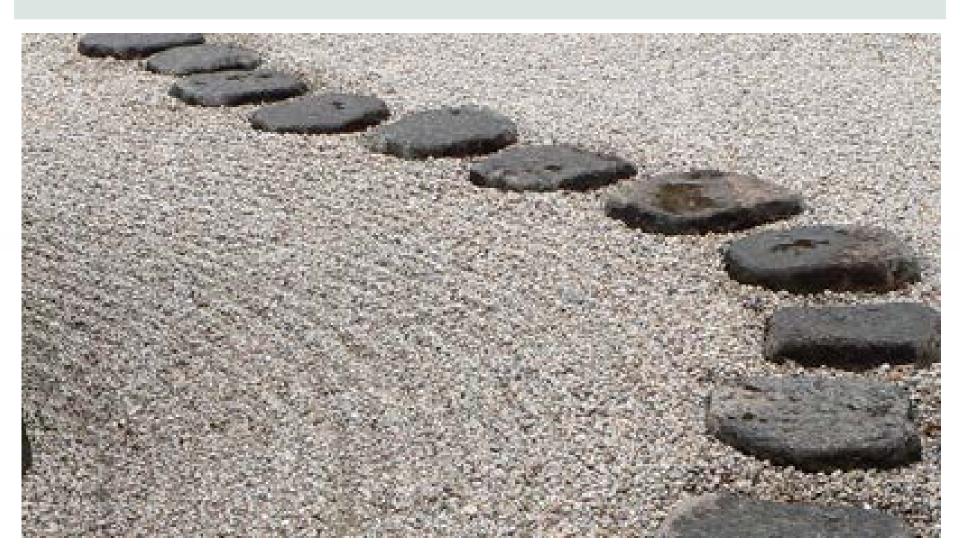


Too Big For Lesson Goals

End-of-grade level expectations End-of-grade level expectations End-of-grade level expectations



Intermediate Steps



Learning Goals



 What students will learn (not what they will do) during a lesson

 one or more periods of learning

 Conceptual, Analytic, Linguistic



Success Criteria

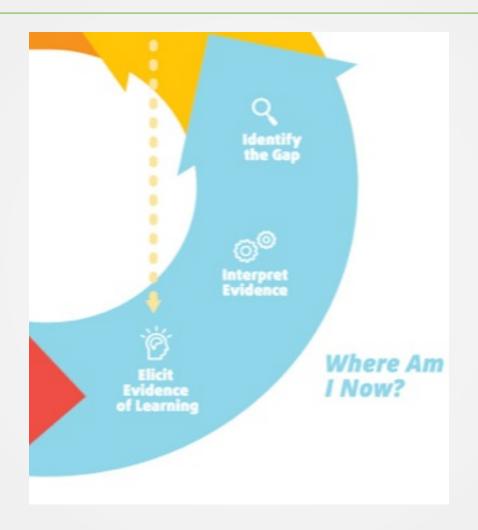


- Performances of learning
- Clearly understood by students
- Aligned to learning goal(s)
- What students will say, do, make or write

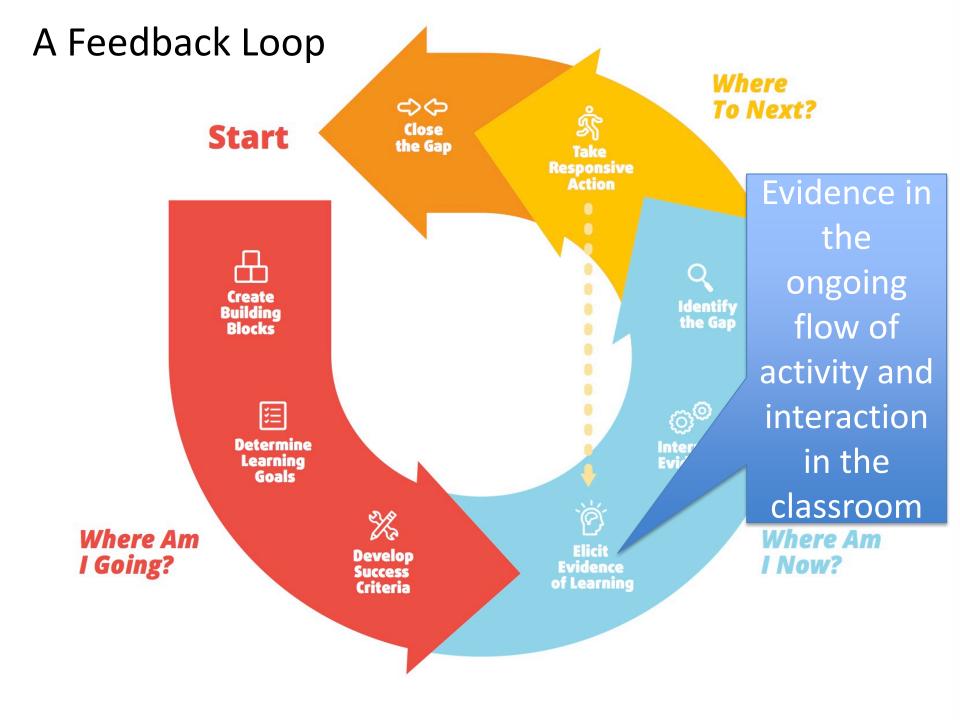


How does this teacher support students to develop success criteria?

How are students involved in the assessment process?







Learning Goal



Use multiplication and division to solve problems

Ricardo has 1,135 US stamps. He has 3 times as many foreign stamps as US stamps. How many stamps does he have altogether?



Success Criteria



I can determine when and how to break a problem into simpler parts

I can explain what the problem is asking me to do

I can explain the relationship between multiplication and division

How is this teacher eliciting evidence?

What does she find out?

What routinized practices are in place?





Deliberate Acts of Teaching

- ✓ Modeling
 - √ Telling
- ✓ Explaining
- ✓ Questioning
 - ✓ Prompting
 - √ Feedback



As you watch the video, what do you notice about the characteristics of this teacher's feedback to her student?

What role is the student playing in this interaction?

Sharon

"Formative assessment has not only changed me as a teacher but I believe it has changed the students as learners."

Heritage, 2010, p. 5



Shawn

- I used to do a lot of <u>explaining</u>, but now I do a lot of <u>questioning</u>.
- I used to do <u>a lot of talking</u>, but now I do <u>a lot of listening</u>.
- I use to think <u>about teaching the curriculum</u>, but now I think <u>about teaching the student</u>.

Heritage, 2010, p. 4



Fundamentals of Learning

FROM THE COMMON CORE STATE STANDARDS
TO TEACHING AND LEARNING IN THE CLASSROOM:
A SERIES OF RESOURCES FOR TEACHERS

FUNDAMENTALS OF LEARNING

AUTHORS: MARGARET HERITAGE, BARBARA JONES, GLORY TOBIASON, AND SANDY CHANG

National Center for Research on Evaluation, Standards, and Student Testing University of California, Los Angeles Graduate School of Education & Information Studies



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The work reported herein was supported by great number #5328050020A between the U.S. Department of Education
and WeelEd with a subcontract to the Notional Center for Research on Evaluations, Standards, and Student Seeling CENSSTS,

he findings and opinions expressed in this publication are those of the authors and do not necessarily reflect the positions or policies of CRESST, WestEd, or the U.S. Department of Education. Provides a framework to assist in transitioning to classroom practices called for in the CCRS

 Developed from leading theory and research

 Grounds formative assessment

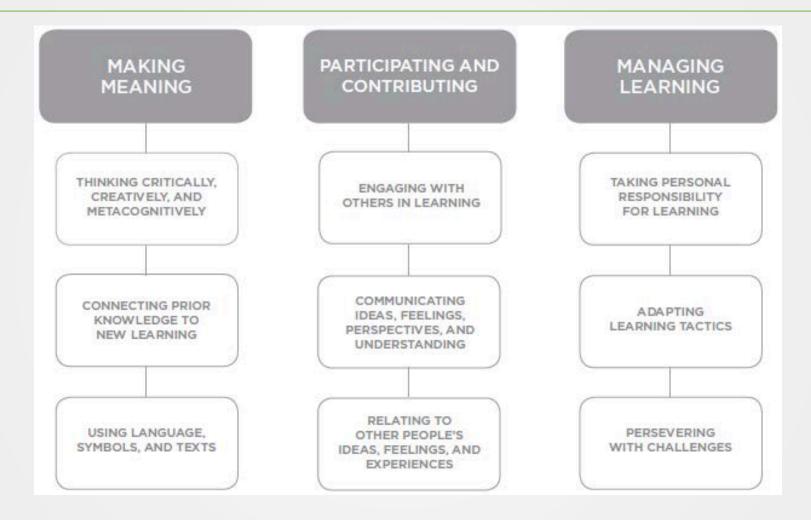


Fundamentals of Learning





Fundamentals of Learning pp. 5-6





Fundamentals of Learning

Cognitive

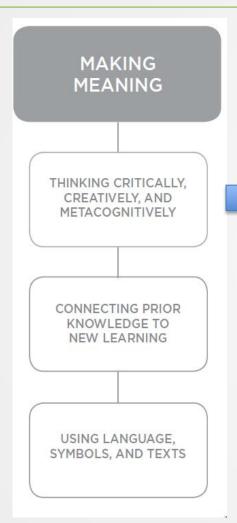
Making Meaning

Interpersonal

Participating and Contributing

Intrapersonal Managing Learning



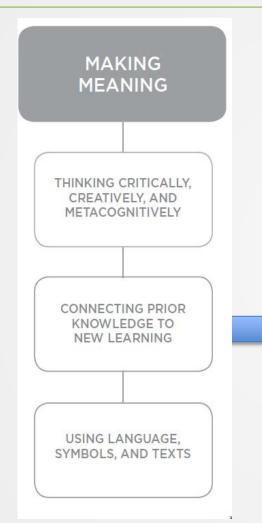


Evaluate information

Reason

- Solve problems
- Analyze and construct arguments
- Think about thinking/learning





• What do I already know about this?

 Activating prior knowledge as the basis for constructing new knowledge



MAKING **MEANING** THINKING CRITICALLY, CREATIVELY, AND METACOGNITIVELY CONNECTING PRIOR KNOWLEDGE TO **NEW LEARNING** USING LANGUAGE. SYMBOLS, AND TEXTS

- Make meaning of the codes through which knowledge is expressed
- Symbols for representing and communicating information ideas and experiences

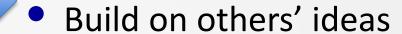


PARTICIPATING AND CONTRIBUTING

ENGAGING WITH OTHERS IN LEARNING

COMMUNICATING IDEAS, FEELINGS, PERSPECTIVES, AND UNDERSTANDING

RELATING TO OTHER PEOPLE'S IDEAS, FEELINGS, AND EXPERIENCES Share and discuss ideas and interpretations

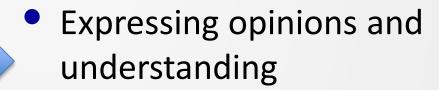


- Explain, critique
- Obtain feedback



PARTICIPATING AND CONTRIBUTING ENGAGING WITH OTHERS IN LEARNING COMMUNICATING IDEAS, FEELINGS, PERSPECTIVES, AND UNDERSTANDING RELATING TO OTHER PEOPLE'S IDEAS, FEELINGS, AND **EXPERIENCES**

Extended discourse



 Actively participating in own and others' learning



PARTICIPATING AND CONTRIBUTING **ENGAGING WITH** OTHERS IN LEARNING COMMUNICATING IDEAS, FEELINGS, PERSPECTIVES, AND UNDERSTANDING RELATING TO OTHER PEOPLE'S IDEAS, FEELINGS, AND **EXPERIENCES**

- Listening to others, reading what others have written
- Observing others
- Being open to others' viewpoints



MANAGING LEARNING TAKING PERSONAL RESPONSIBILITY FOR LEARNING **ADAPTING** LEARNING TACTICS **PERSEVERING** WITH CHALLENGES

- Self-direct
- Take initiative
- Active, capable learners



MANAGING **LEARNING** TAKING PERSONAL RESPONSIBILITY FOR LEARNING **ADAPTING** LEARNING TACTICS PERSEVERING WITH CHALLENGES

Make plans



- Monitor progress
- Adapt learning tactics

Fundamentals of Learning pp. 7-10

IN PRACTICE

- What the FOLs look like in practice:
 - Students
 - Teachers
 - Resources
 - Activities and tasks
 - Classroom culture
 - Language

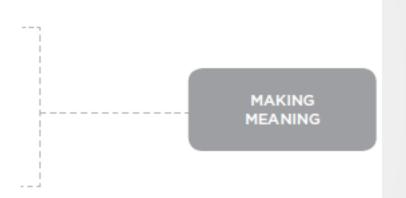


Fundamentals of Learning pp. 7-10

IN PRACTICE

STUDENTS ARE LIKELY TO:

- Ask questions of themselves, the teacher, and others
- Take time to think
- Tackle real and interesting problems and devise solutions
- Reason and justify thoughts
- Draw on personal knowledge and experience





Questions and Review

Any questions?

Now take some time to review the FOLs





What do you see in this video clip that has to do with formative assessment?

What FOLs do you see enacted?



Video & Discussion

Notice how the teacher:

Provides feedback to students based on evidence of their work Co-constructs success criteria related to the goal with students Obtains evidence from small group and whole class discussions Places responsibility on students

Fundamentals of Learning





User Guide

FROM THE COLLEGE AND CAREER READY STANDARDS
TO TEACHING AND LEARNING IN THE CLASSROOM:
A SERIES OF RESOURCES FOR TEACHERS

CSAI-DEVELOPED CURRICULUM AND INSTRUCTION RESOURCES
USER GUIDE FOR EDUCATION LEADERS

AUTHORS: MARGARET HERITAGE, NANCY GERZON, AND BARBARA JONES



Updated November 2015

- Selecting the right resources for teachers
- Designing effective professional learning for teachers
- Leading implementation over time



Resource title	Content focus	Use this resource if
Fundamentals of Learning	Provides a framework which outlines three essential components of learning that underpin classroom practice for K-12 students' attainment of CCRS. These elements are: (1) Making Meaning	Educators could benefit from examining key ideas in contemporary learning theory and research and what learning theory and research look like in practice.
	(2) Participating and Contributing (3) Managing Learning Detailed illustrations of what the three components look like during teaching	It would be useful for teachers to reflect on which of these practices need to be developed or extended in their own classrooms in the context of CCRS.
	and learning are provided. This is a useful resource for reflecting on current practice and considering core instructional practices that address these Fundamentals.	Teachers could benefit from learning more about the role of students as learners.

Designing Professional Learning

Pre-Implementation Planning (pp. 5-6)

- Align learning outcomes to teachers' current learning needs
- Clarify expectations for use of the materials
- Identify how and when follow-up implementation will occur
- Ensure work is aligned to improvement goals
- Outline structures for ongoing dialogue



Leading Professional Learning

Four-Step Approach (pp. 6-8)

- Introduce materials
- Teachers practice the protocols
- Teachers apply the protocols
- Teachers reflect with colleagues

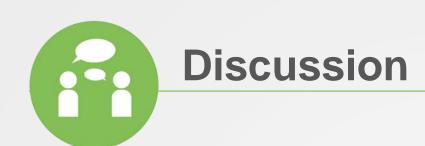


Leading Implementation Over Time

Role of Leaders (p. 8)

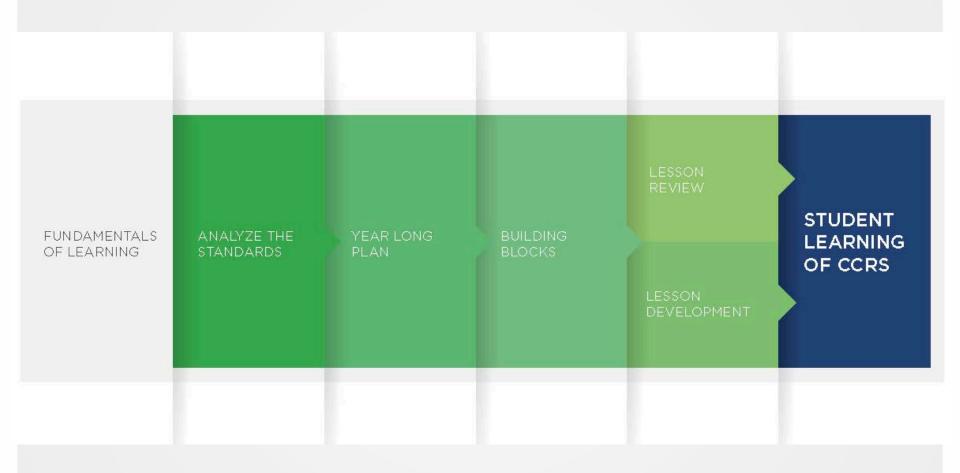
- Evaluate
- Document
- Celebrate





What implementation strategies for the *FOLs* might you use from the *User Guide?*

CSAI-Developed Curriculum & Instruction Resources - Overview





Getting a Handle on the Standards

FROM THE COMMON CORE STATE STANDARDS
TO TEACHING AND LEARNING IN THE CLASSROOM:
A SERIES OF RESOURCES FOR TEACHERS

GETTING A HANDLE ON THE STANDARDS

ATITUDDS-

BARBARA JONES, GLORY TOBIASON, SANDY CHANG, AND MARGARET HERITAGE

National Center for Research on Evaluation, Standards, and Student Testing University of California, Los Angeles Graduate School of Education & Information Studies



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The work reported horses was supported by grant number #SEXEMDENZEA between the U.S. Department of Education
and WestEd with a subcontract to the Michard Carelser for Research or Evaluation, Exactions, and Student Tenting (CESSES).
The Indiago and opinion supremed in this publication are those of the authors and do not reconsulty
misc the resolution or politics or (CESSES). WestEd or the U.S. Desparatment of Education.

- Provides guidance on the shifts, themes, and architecture of ELA and math CCRS
- Includes processes to:
 - Review own standards
 - Analyze current instructional materials relative to CCRS learning expectations



Process for Studying Math Standards

- Interpreting Practice Standards
- Analyzing Content Standards by type and connection to Practice Standards
 - Conceptual Understanding
 - Procedural Fluency
 - Application



Process for Studying ELA Standards

- Compare old and new standards
 - Same
 - Similar but more rigorous
 - New
 - Removed



Process for Studying Math and ELA Standards

- Learning Progression Analysis
- Review of existing instructional materials and teaching strategies
 - Currently Covered
 - Needs Refinement
 - Needs Development



Yearlong Planning

FROM THE COLLEGE AND CAREER READY STANDARDS TO TEACHING AND LEARNING IN THE CLASSROOM: A SERIES OF RESOURCES FOR TEACHERS

WHAT'S LEARNED FIRST, WHAT'S LEARNED TOGETHER?

DEVELOPING A YEARLONG PLAN FROM THE K-12 COLLEGE AND CAREER READY STANDARDS FOR ENGLISH LANGUAGE ARTS AND LITERACY

AUTHORS:

NICOLE MANCEVICE, MARITZA LOZANO, BARBARA JONES, GLORY TOBIASON, MARGARET HERITAGE, SANDY CHANG, AND JOAN HERMAN

National Center for Research on Evaluation, Standards, and Student Testing University of California, Los Angeles Graduate School of Education & Information Studies



Updated August 2015

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- Make connections within and across standard domains/strands
- Determine a standardsbased yearlong teaching and learning sequence



Yearlong Planning Steps

- Study and annotate standards
- Group standards and synthesize themes
- Determine the major work of the grade
- Organize standards into a yearlong sequence of teaching and learning



Study and Annotate Standards

Types of Reflections	Examples	
Summary or paraphrasing	 "Okay, this is basically, toggling between multiplication and division." "This is mainly about using the number line." 	
Reaction to a standard	 "This standard depends on a lot of others." "A lot of other standards depend on this one." 	
Reflection on the standard in relation to students	 "They're going to need a lot of practice with this." "The vocabulary might be tricky for them here." "They'll pick this up pretty quickly." 	
Connection to the previous or next grade	 "Is this the first time they're seeing this?" "This isn't so different from what they had to do last year." "This is going to be really important next year." 	
Connection between standards	 "How does this fit with the other standards in this cluster?" "Will they be able to do this standard without mastering that standard?" "I think this standard is an application of that standard." 	



Group Standards and Synthesize Themes

PL.3.2. emphasis on text evidence

PL.3.3. connection between characters and events

PL.3.s. expand genres to include drama, poetry

PL.3.9. themes, settings, plots across texts by same author

literary elements within and across texts



Determine the Major Work of the Grade

distinguishing point of view

Headline

- Distinguish personal point of view from that of narrator and/or characters (Pc.3.6), author (Pl.3.6)

Pelationship of Ideas Within a Text

- Use language that relates to
time, order, and cause to describe
relationship between events or
ideas (121.3.3)

Storyline

- Explain relationship between sentences and paragraphs (W.3.s)

Storyline



Organize Standards into a Yearlong Sequence of Teaching and Learning

Headline Storyline	CCRS Code	Timeframe	Math Practices	Gossip Page
MULT & DIV - Multiplication as amajs; division as equal groups	2.0A3, 2, 9	Months	2, 4, 3, 2	ĠI
TIME & LIQUID VOLUME - Talling time to the regrest minute	±.M⊅.i	Baps		
TIME & LIQUID VOLUME - Measuring liquid volume & mass	x.MD.2	Days		
MULT & DTV - Connection between multiplication & division	2.0 A 4-6	Months	å, ≥	
SHAPES - Partitioning shapes into equal parts as expressed by fractions	2.6.2	3aps	27.2	G2
GRAPHS & MEASUREMENT - Using rulers to measure in units, Y's and Y's	x.MD.4	Days	5, 6	G2
FRACTIONS - What is a fraction?	2.NF)	Months	2, 4	Ġ2
GRAPHS & MEASUREMENT - Drawing and using bar graphs to solve + & 2-step problems	x.MØ.x	Weeks	1, 4, 3	

FRACTIONS - Fractions on a number line	2.NF.2 2.8	o) eaks	ś	Gz
PLACE VALUE & ROUNDING - Rounding to the negrost 10 or 100	z.N8T1	aleefs	6	
PLACE VALUE & ROUNDING - Multiplying taight numbers by multiples of 10 (range of 10-90)	2.N8T.2	Days		
FRACTIONS - Equivalent fractions	2.NF.2	Months		Go
AREA - What is areal Whit squares	xMD3-6	Deaks	6.4	G2, G4
AREA - Relating area to multiplication and addition	±.MD.⊋	a) auto	25 25 47	GI
PERIMETER - Solving problems with parimeter	x.MD.s	Bapts		Gu
SHAPES - Catagorius and attributus of shapus	¥.G.1	Days		

Ticker Tape Standards	CCRS Code	Math Practices
MULT & DIV - Solving 2-stap word problems using 4 operations	2.0A. <u>s</u>	ų.
PLACE VALUE & ROUNDING - Fluenthy adding and subtracting within 1000	2.N8T.2	ś
MULT & DIV - Solve word problems with multiplication and division	2.04.2	4
MULT & DIV - Fluently multiplying and dividing	2.0A.9	6



Building Blocks

FROM THE COLLEGE AND CAREER READY STANDARDS TO TEACHING AND LEARNING IN THE CLASSROOM: A SERIES OF RESOURCES FOR TEACHERS

BUILDING BLOCKS, LEARNING GOALS, AND SUCCESS CRITERIA

PLANNING INSTRUCTION
AND FORMATIVE ASSESSMENT FOR K-12
ENGLISH LANGUAGE ARTS AND LITERACY STANDARDS

AUTHORS:

MARITZA LOZANO, NICOLE MANCEVICE, BARBARA JONES, MARGARET HERITAGE, SANDY CHANG, GLORY TOBIASON, AND JOAN HERMAN

National Center for Research on Evaluation, Standards, and Student Testing University of California, Los Angeles Graduate School of Education & Information Studies



Updated August 2015

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The work reported herein vas supported by grantrumber \$5239000022A between the U.S. Department of Education
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The findings and opinions expressed in this publication are from of the authors and do not necessarily
referet the positions or policies of CREST, WestEd, or the U.S. Department of Education.

- Identify the series of changes that occur in student thinking/skills
- Determine lesson-sized Learning Goals and Success Criteria



Math Building Block Example

Building Blocks of a Standard	What the Teacher Was Thinking When Creating the Building Block
Block 1 Practice repeated addition of objects arranged in rectangular arrays with progressively more rows and columns (beyond 5 rows and 5 columns). EX 7+7+7+7 and 2+2+2+2+2+2	The idea is that students need to practice this until it's no longer difficult or interesting. This way, they'll be receptive to the idea of multiplication as a "shortcut to repeated addition."
Block 2 Move between symbolic (2+2+2+2) and concrete (four groups of 2 objects) representations of the same repeated addition number sentence.	Students will need a lot of practice toggling among various representations, and this practice should occur in multiple content areas (science, art, etc.).
Block 3 Describe repeated addition like 2+2+2+2 as "the number 2, added four times," and then, "four times 2."	This shift in language is deeply connected to the concurrent, underlying conceptual shift from addition to multiplication
Block 4 Extend the learning of Block 3 to include more repeats. EX 2+2+2+2+2+2	Students' practice with different representations should include larger numbers and cross-content connections, as appropriate.

Block 5 Extend the learning of Block 3 to include more objects in each group. EX 7+7+7+7	Their practice with different representations should include larger numbers and cross-content connections, as appropriate.
Block 6 Understand multiplication as a shortcut to repeated addition.	As students work with larger numbers, they can begin to use and notice patterns in the 100's square, addition table, and multiplication table.



Learning Goals and Success Criteria

BUILDING BLOCKS OF A LESSON	LEARNING GOALS	SUCCESS CRITERIA
Block 1 - Recognize that characters and narrator can express themselves through different language styles.	Understand that the characters and the narrator have Unique language Styles.	I can identify and characterize the narrator's and different characters' language styles. I can explain how the narrator's and characters' language styles are different from one another.
Block 2 - Understand that what characters say, their tone, and what they do provide clues as to their points of view.	Understand a character's point of view based on their tone.	I can state a character's point of view based on their tone. I can use evidence from the text to support my explanation of a character's point of view.



Text Complexity

Conceptual and skill work Text complexity Conceptual and skill work Text complexity Conceptual and skill work Text complexity



Afternoon Working Session

- Work in same small group to create Building Blocks using selected state and grade level standards
- Use a Building Block to create Learning Goals and Success Criteria



Wrap-up for Day 1

Jennifer Watson

&

Mark Turner
C3/SC3 Logistics Coordinator





Thank you!

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