COMMON

A Story of Units

Grade 1 – Module 1

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A Story of Units Curriculum Overview of A Story of Units

Session Objectives

- · Examine the sequence of concepts across the
- Study mathematical models and instructional strategies from A Story of Units.
- · Prepare to implement this and subsequent modules of A Story of Units.

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A Story of Units

Agenda

Lesson Structure Instructional Sequence Module Review Preparation for Implementation

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Introduction to the Lesson Structure

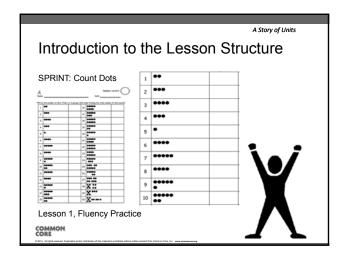
Math Fingers Flash





Lesson 1, Fluency Practice





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The Role of I	A Story of Units
Maintenance	staying sharp on previously learned skills
Preparation	targeted practice for the current lesson
Anticipation	skills that ensure that students will be ready for the in-depth work of upcoming lessons
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Introduction to the Lesson Structure

Dora found 5 leaves that blew in through the window. Then, she found 2 more leaves that blew in. Draw a picture and use numbers to show how many leaves Dora found in all.



Lesson 1, Application Problem



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Application Problems

- · Real world problem solving
- · Placement in lesson depends on function
- · Opportunity for informal assessment

Problem-solving process:

Read the problem

Draw and label a model to represent the problem

Write an equation and a complete word sentence

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Application Problems - HIDDEN SLIDE (p.2 of notes)

- · Real world problem solving
- Placement in lesson depends on function
- · Opportunity for informal assessment

Problem-solving process:

Read the problem

Draw and label a model to represent the problem

Write an equation and a complete word sentence

Application Problems – HIDDEN รีไปปี่E (p.3 of notes)

- · Real world problem solving
- Placement in lesson depends on function
- · Opportunity for informal assessment

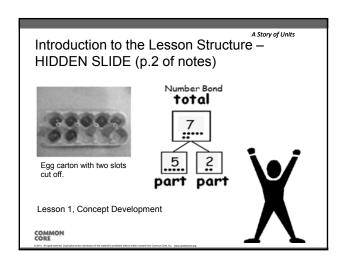
Problem-solving process:

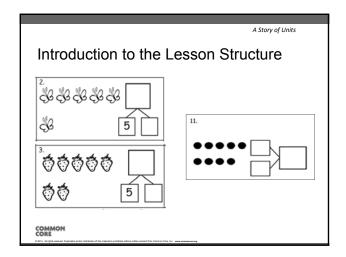
Read the problem

Draw and label a model to represent the problem

Write an equation and a complete word sentence

A Story of Units Introduction to the Lesson Structure Number Bond total Egg carton with two slots part part Lesson 1, Concept Development COMMON CORE





Concept Development

- · New material
- Timing includes 10 minutes for Problem Set
- Moves from simple to complex

Problem Set

- · Time frame rather than task frame
- Closely related to the other lesson components
- A good place to begin lesson planning

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Concept Development - HIDDEN Stander. 2 of notes)

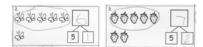
- New material
- Timing includes 10 minutes for Problem Set
- Moves from simple to complex

Problem Set

- · Time frame rather than task frame
- Closely related to the other lesson components
- A good place to begin lesson planning

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Introduction to the Lesson Structure



Look at Problems 2 and 3. Are there 5 butterflies? Where? What about strawberries?

Can you show me five fingers? Can you show me 5 fingers on 2 hands?

Look at your Application Problem. What were the 2 parts in our story problem?

Lesson 1, Student Debrief

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Introduction to the Lesson Structure – HIDDEN SLIDE (p. 2 of Notes)





Look at Problems 2 and 3. Are there 5 butterflies? Where? What about strawberries?

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Lesson 1, Student Debrief

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Student Debrief

- · Class conversation to reflect on the day's learning
- Make connections between parts of the lesson, concepts, strategies, and tools
- · Students ultimately articulate the learning objective

Exit Ticket

- · Daily formative assessment to drive instruction
- · Time frame rather than task frame
- Tool for lesson planning

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Student Debrief – HIDDEN SLIDE (p:200fils notes)

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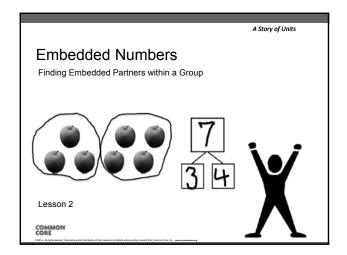
A Story of Units

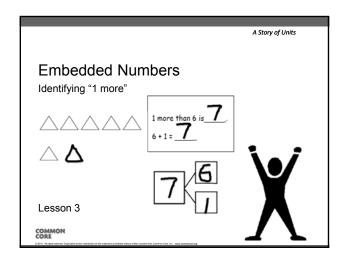
Agenda

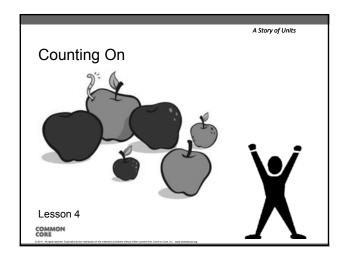
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Instructional Sequence
Module Review
Preparation for Implementation

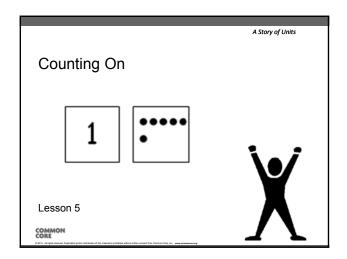
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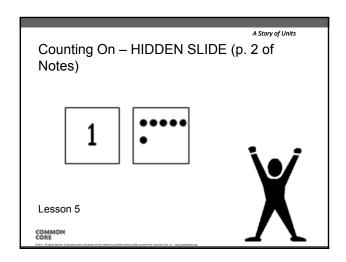
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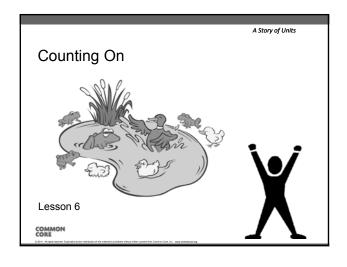


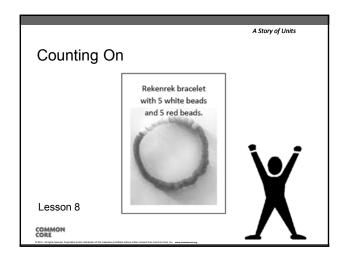


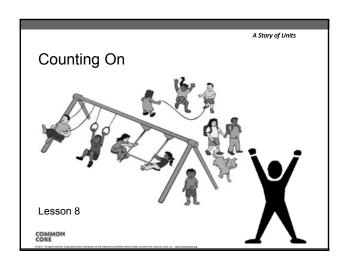


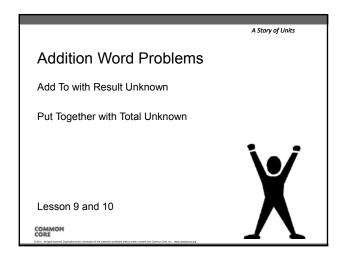


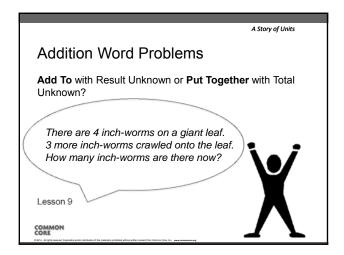


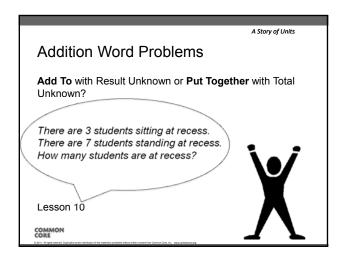


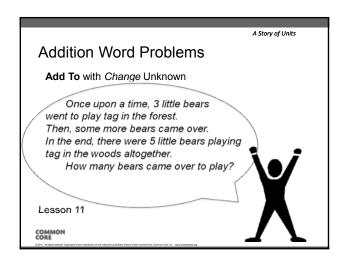


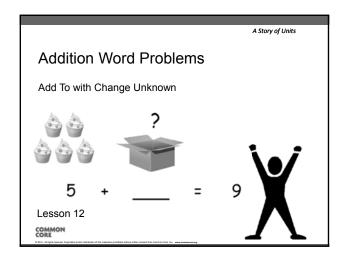


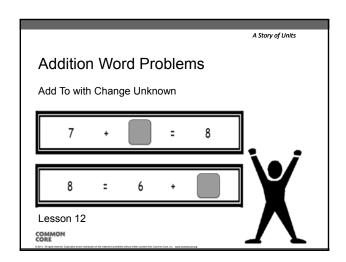


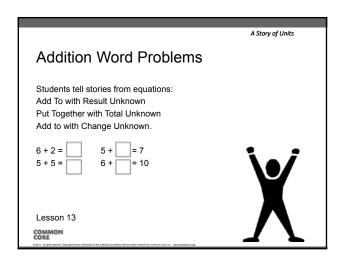


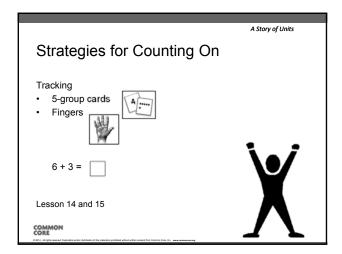


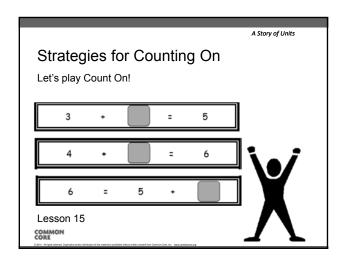


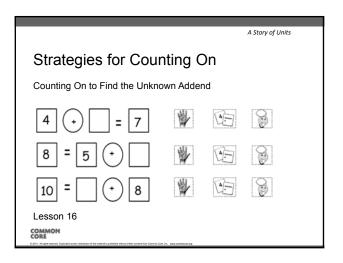


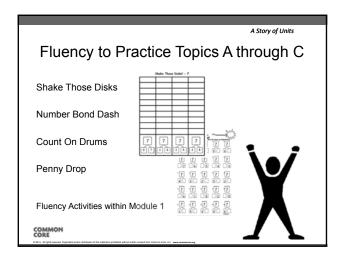


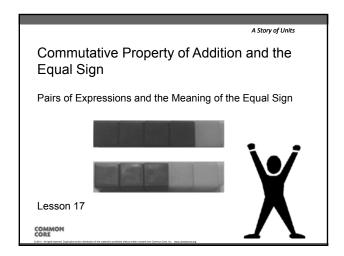


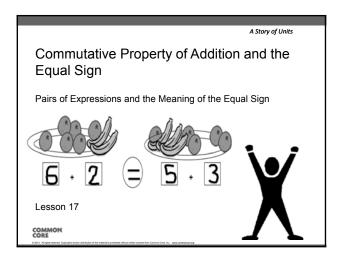


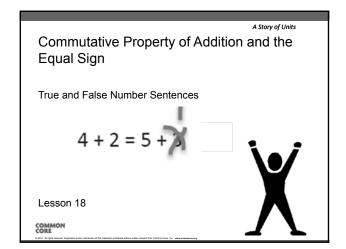






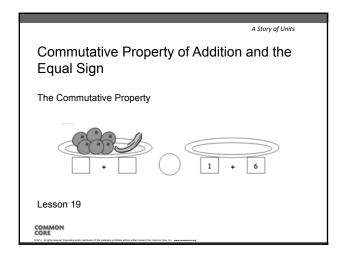






Commutative Property of Addition and the Equal Sign – HIDDEN SLIDE (p. 2 of notes)
True and False Number Sentences
4 + 2 = 5 + 3
Lesson 18
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Commutative Property of Addition and the Equal Sign
True and False Number Sentences
5+1=3+3
Lesson 18
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Commutative Property of Addition and the Equal Sign

Counting On from the Larger Addend



Knowing 1 + 7 is the same as 7 + 1, which would be a faster way to find out the total?

- Should we start at 1 and count on 7?
- Should we start at 7 and count on 1?

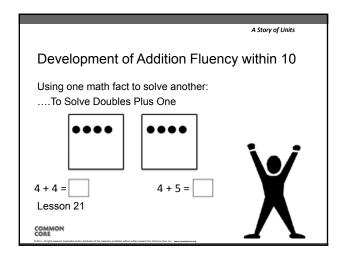
Lesson 20

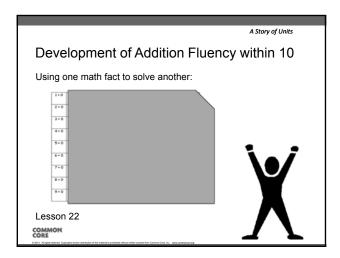
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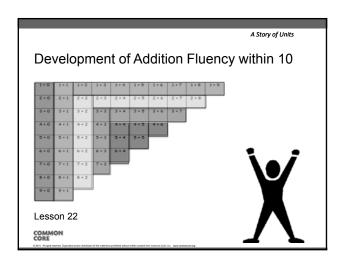
Development of Addition Fluency Within 10

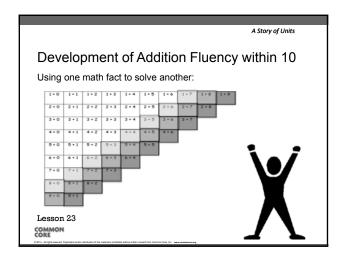
Using one math fact to solve another:
Use Doubles......

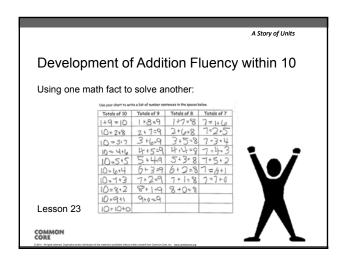
Lesson 21

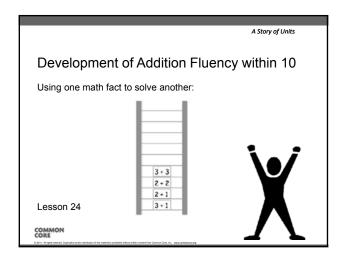




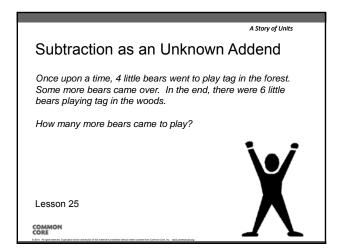




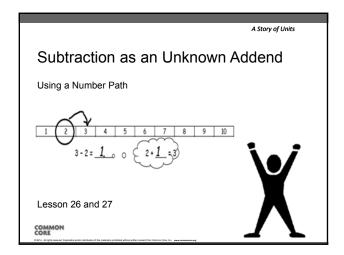


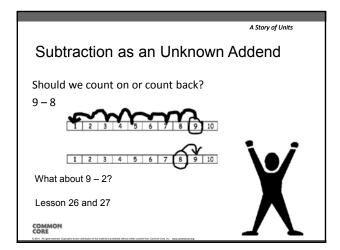


A Story of Units
Development of Addition Fluency within 10
Using one math fact to solve another:
4+3 5+2 5+1 4+4 5+5 3+5 4+4
Lesson 24

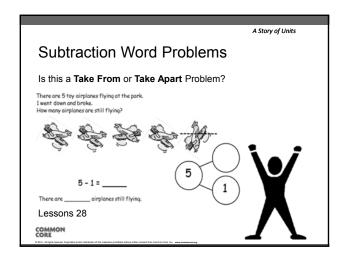


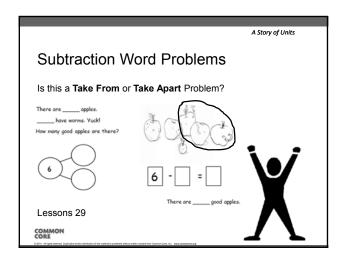
Subtraction as an Unknown Addend - Story of Units HIDDEN SLIDE (p.2 of notes) Once upon a time, 4 little bears went to play tag in the forest. Some more bears came over. In the end, there were 6 little bears playing tag in the woods. How many more bears came to play? Lesson 25 COMMON CORE

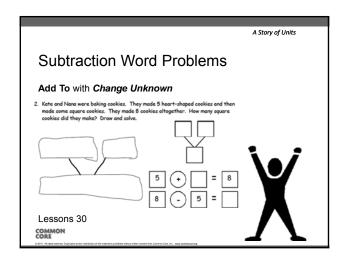


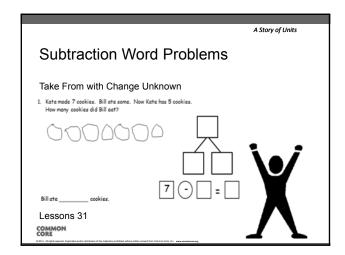


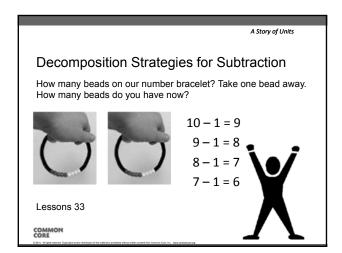
	A Story of Units
Subtraction Word Problems	
Take From with Result Unknown	
Put Together/Take Apart with Addend Unknown	
Add To with Change Unknown	
Take From with Change Unknown	
Lessons 28 - 32	X
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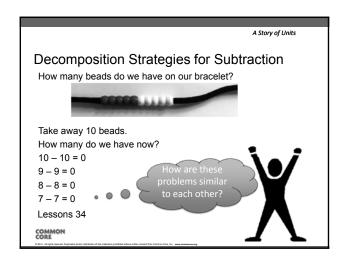


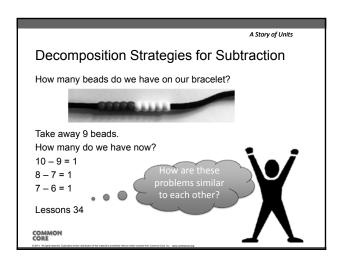






	A Story of Units
Decomposition Strat	egies for Subtraction
Take away 0 beads. How ma	ny beads do we have now?
	4 - 0 = 4
	5 – 0 = 5
	6 - 0 = 6
	7 – 0 = 7
	8 - 0 = 8
1 22	9 – 0 = 9
Lessons 33	10 – 0 = 10
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	A Story of Units
Decomposition Strategies for Su	ıbtraction
Show 7 on your hands the Math Way. Use your hands to show $7 - 5$. $7 - 5 = 2$ Use your hands to show $7 - 2$.	
7 – 2 = 5	V
Lessons 35	\mathbf{A}
COMMON CORE SOM A Vigory award Equivalence and a defined of the neurology problem of the same from Corner Corn. No	11

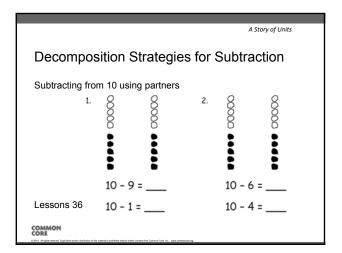
Decomposition Strategies for Subtraction

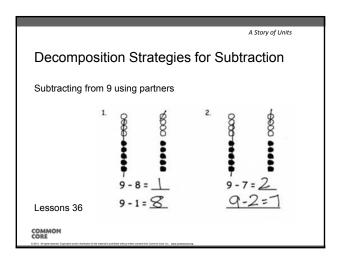
Consider doubles when subtracting....

Which of the expressions below is made by splitting up a double?

7 - 3 8 - 4 9 - 2

Lessons 35





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Developmen ³	t of S	Su	btr	act	ion	١F	lue	ncy	/ W	ithin 10/
· ·								•		
	1+0	1 - 1	1+2	1 * 3	1 - 4	1+5	1+6	1 • 7	1+8	1.9
	2 - 0	2 - 1	2 - 2	2 - 3	2 - 4	2 - 5	2 - 6	2 = 7	2+8	
	3-0	3 - 1	3 + 2	3 - 3	3 - 4	3 - 5	3 • 6	3 - 7		J
	4+0	4 - 1	4+2	4+3	4+4	4+5	4+6		1	
	5-0	5 - 1	5+2	5+3	5+4	5+5		J		
	6-0	6 • 1	6+2	6 - 3	6 - 4		J			6-4
	7 - 0	7 + 1	7+2	7+3			k a subtr			
	8-0	8 - 1	8 + 2			Fi	nd the rel	ated add	ition foc	t on the
	9-0	9 - 1					ort and sl rite the s			nce and
Lesson 38 & 39	10 + 0					1	number bo			
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	A Story of Units
End-of-Module Asse	essment
There are 9 ducks swimming along in a line rest are babies. How many of the ducks a. Explain your thinking using pictures, nu	re babies?
b. Write a number sentence that shows ho	How would you solve this problem?
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Agenda

Lesson Structure
Instructional Sequence
Module Review
Preparation for Implementation

Progression Study

- · What are the Progressions?
- Explore: K-5, Operations and Algebraic Thinking Progression
 - Read page 6
 - Scan page 9
 - Read pages 13-15 (starting with the 2nd full paragraph on p.13, ending with the 2nd full paragraph on p. 15)
- Highlight the information relevant to the content of this module.



A Story of Units

Progression Study

Study Lessons 6, 14, and 25.

Then, turn and talk:

· How do these lessons engage students in the work described in the Progression?



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Coherence Within the Module

Analyze the progression of each lesson component across the Module.

- · What does the sequence of Fluency Practices accomplish as a whole?
- · How does the sequence of Application Problems connect to topic/module?
- · How does the sequence of Concept Development and Student Debrief build toward mastery of the topic/module?



	A Story of Units
Coherence Within the Modu	ıle
Analyze the progression of each lesson c the Module.	omponent across
 What does the sequence of Fluency Practices accomplish as a whole? 	3
How does the sequence of Application Problems connect to topic/module?	
 How does the sequence of Concept Development and Student Debrief build toward mastery of the topic/module? 	
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Agenda

Lesson Structure Instructional Sequence Module Review Preparation for Implementation

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Practice a Planning Protocol

- With any topic from A Story of Units, read the module overview and the topic opener.
- Study the module assessment, paying particular attention to the sample responses provided.

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Practice a Planning Protocol

- · Read through the first lesson of the topic.
- Then, take note of the lesson objective and reexamine the exit ticket with the objective in mind.
 What major concept is necessary to successfully complete the exit ticket?
- Study the concept development and problem set. How do the CD/PS develop the major concept that is required in the exit ticket? What parts of the CD/PS go beyond this major concept?

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A Story of Units

Practice a Planning Protocol

- How will this knowledge empower teachers to support specific groups of learners?
- Turn to the subsequent lesson, and examine the exit ticket. How does this exit ticket build on the last? How are the two exit tickets similar and how are they different?
- Will students have an opportunity in the second lesson to continue development of the first lesson's objective?
 What level of mastery of the first lesson's objective is necessary in preparation for the second lesson?

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Practice a Planning Protocol

- How does the new plan for implementation impact the student debrief?
- Are any adjustments needed to the fluency and/or application components of the lesson?

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Practice a Planning Protocol

Repeat this process for each lesson.

- · Read lesson.
- Study exit ticket. Identify critical portions of concept development and problem set.
- · Consider needs of specific students.
- Refer to subsequent exit ticket. Revise implementation plan as needed.
- Make adjustments to the student debrief as needed.
- Consider the other lesson components, ensuring a balance of rigor.

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Biggest Takeaway
I now know...
I need to figure out...

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Key Points

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- When making instructional decisions in order to meet the needs of specific students, there are only two rules:
 - · Honor the objective!
 - Honor the balance of rigor!
- Add key points about the content of M1 here...

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	A Story of Units
Next Step	
The first thing I'll do to prepare is	
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