

CCSS included in this Unit

1.OA.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown

number to represent the problem.

1.OA.3 Apply properties of operations as strategies to add and subtract. *Examples: If* 8+3=11 *is known, then* 3+8=11 *is also known. (Commutative property of addition) To add* 2+6+4, *the second two numbers can be added to make a ten, so* 2+6+4=2+10=12. (Associative property of addition)

1.OA.5 Relate counting to addition and subtraction (e.g., by counting on 2 to add 2)

1.OA.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting or; making ten (e.g., 8+6=8+2+4=10+4=14); decomposing a number leading to a ten (e.g., 13-4=13-3-1=10-1=9); using the relationship between addition and subtraction (e.g., knowing that 8+4=12, one knows 12-8=4); and creating equivalent but easier or known sums (e.g., adding 6+7 by creating the known equivalent 6+6+1=12+1=13).

1.OA.7 Understand the meaning of the equal sign and determine if equations involving addition and subtraction are true or false. For example, which of the following equations are true and which are false? 6=6, 7=8-1, 5+2=2+5, 4+1=5+2.

WIDA ELD standards that can be aligned to the CCSS in this Unit and domains addressedGrade 1 ELD Standard 1: Social and Instructional Language-Speaking, Listening, ReadingGrade 1 ELD Standard 3 Language of Mathematics- Speaking, Listening, Reading, WritingExisting strands of MPIs that match up to the topic(s) of this Unit

Level 1-Entering

Level 2-

Level 3-

Level 4-

Level 5-

		Emerging	Developing	Expanding	Bridging
Sample Topic:	Recite math-related	Restate or	Describe	Compare/contrast	Explain basic
Basic operations	words or phrases	paraphrase basic	representations of	language of basic	operations involved
(addition &	related to basic	operations from	basic operations	operations from	in problem solving
subtraction)	operations from	oral statements	from pictures of	pictures and oral	using pictures and
	pictures of	referring to pictures	everyday objects	descriptions (e.g.,	grade-level oral
Domain:	everyday objects	of everyday objects	and oral	"Tell me different	descriptions.
Speaking	and oral statements	(e.g., "Ten pencils	descriptions (e.g.,	ways to say this	
Framework:		and ten more are	"There are seven	math sentence")	
2007		twenty.")	dogs altogether.")		
			and a second		
Sample Topic:	Follow oral	Follow oral	Follow oral	Follow oral	Follow a series of
Basic operations	directions	directions	directions by	directions without	oral directions
(addition &	according to simple		comparing them	visual support and	without support
subtraction)	commands using	complex commands		check with a peer	(related to addition
	manipulatives or	using manipulatives	nonverbal cues or	(related to addition	and subtraction)
Domain:	real life objects	or real life objects	modeling (related	and subtraction)	
Speaking		(related to addition	to addition and		
Framework:	(related to addition	and subtraction)	subtraction)		
2007	and subtraction)	A M			
Transformed stran	d(s) of MPIs to m	atch up to the un	it	L	1 
	Level 1-Entering	Level 2-	Level 3-	Level 4-	Level 5-

		Emerging	Developing	Expanding	Bridging
Sample Topic:	Identify numerals	Identify labeled	Identify key words	Identify key	Identify short
Classroom	and mathematical	pictures of	related to addition	phrases related to	sentences related to
Activities	symbols from	numerals and	and subtraction in	addition and	addition and
	illustrated texts	groups of objects to	illustrated texts	subtraction in	subtraction in
Domain: Reading	related to games or	add and subtract	related to games	illustrated texts	illustrated texts
Framework:	activities to be	from illustrated	and activities	related to games	related to games
<b>2</b> 012	implemented	texts related to	implemented	and activities	and activities
	during the unit with	games or activities	during the unit with	implemented in the	implemented in the
	a partner	implemented	a partner	unit with a partner	unit with a partner
		during the unit with			
		a partner	B		
Sample Topic:	Match labeled	Match words or	Identify language	Distinguish	Order illustrated
Estimation/Money	pictures with $\Lambda$	phrases related to	associated with	between language	sentences involving
Domain: Reading	general words related to addition	addition or subtraction to	addition and ubtraction in	of addition and language of	the language of addition or
Framework:	and subtraction to	illustrated word	ustrated phrases	subtraction in	subtraction used to
<b>2</b> 007	pictures of varying♥	banks of varying	or sentences	fillustrated	solve grade level
	quantities	quantities		sentences	problems

Sample Topic:	Follow one step	Follow two step	Follow three step	Follow multi-step	Change
Basic Operations	oral instructions to	oral instructions to	oral instructions to	oral instructions to	addition/subtraction
(addition &	role play an	an	an	an	word problems to
subtraction)	addition/subtraction	addition/subtraction	addition/subtraction	addition/subtraction	demonstrate
<b>.</b>	word problem	word problem using	word problem using	word problem using	knowledge of fact
Domain:	following a model	drawings,	a number line	a number line with	families
Listening	with a partner	manipulatives	following a model	a partner	
Framework:			with a partner		
2012		with a partner			
		A I			
Sample Topic:	Provide identifying	Give examples of	Exchange examples	Explain how to	Tell or make up
Number Sense	information that	real-world objects/	of how or when to	play games that	stories that involve
_ /	involves real world	items that could be	add or subtract	involve addition or	addition or
Domain:	addition and	added together or	outside of school	subtraction to a	subtraction
Speaking	subtraction related	subtracted to a	with a partner	partner	
Framework:	vocabulary to a	partner	The second		
2007	partner				
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			1		

Sample Topic:	Produce pictures	Take dictation or	Provide examples	Describe uses of	Explain importance
Quantity	with numerals or	make notes of	of quantities in	addition and	of everyday math
	reproduce word	examples with	context when they	subtraction in	using addition and
<b>Domain:</b> Writing	associated with	phrases associated	are added or	everyday situations	subtraction in real-
Framework:	addition or	with addition and	subtracted using	with illustrated	life situations using
2007	subtraction from	subtraction in	phrases or short	examples using	a series of related
2001	models	everyday situations	sentences	sentences	sentences
		and the second s			
Sample Topic:	Find and reproduce	Distinguish	Group numbers	Compare numbers	Describe illustrated
Whole numbers	addition and	addition and	together to form	used to add or	scenes or events
Domain: Writing	subtraction words from an assortment	subtraction words from other math	phrases or short sentences related to	subtract in visuals using sentences	using terminology related to addition
Framework:	of visuals	words using	addition or		or subtraction in a
2007		graphic or visual	subtraction with	1	series of related
		support and word	sual or graphic		sentences
	W	banks	support		

Socio-cultural implications of these standards

Be mindful of objects used in activities (You done want to interfere with their cultural beliefs e.g., Muslim students may not want to use manipulates such as pigs due to religious beliefs)

When grouping students, make sure you take into consideration their interest and/or

language proficiency and background.

Left to right directionality.

Be aware of students' current exposure (or lack of to vocabulary and/or manipulatives used in the curriculum.

Content standards written in accessible

CCS standards in student friendly language that can be posted in the classroom during Unit instruction.

1.OA.1 We will be using addition and subtraction to find and show our answers.

1.OA.3 We will be writing turn-around facts for our math sentences.

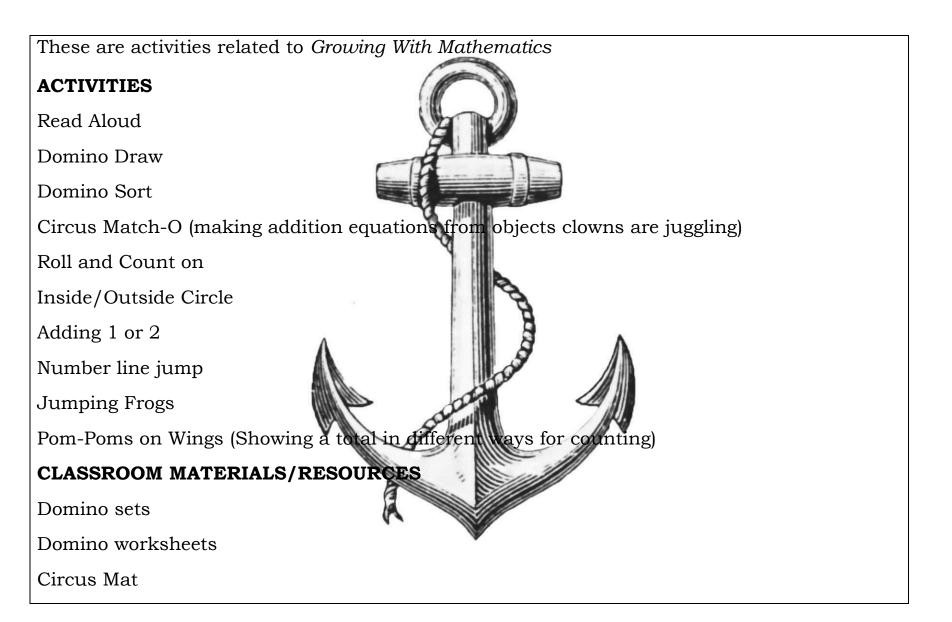
1.OA.5 We will explain the counting strategies we use to get our answers (e.g., forward, backwards, by 2s, 5s,10s, and counting on)

1.OA.6 We will give answers by counting on.

1.OA.7 We will describe addition as two parts joining together to make a total (that balances/equal).

Topics and themes to present in the Unit

Grade level topics, themes, and activities that can be used during this unit of instruction andthe possible materials to be used that are aligned to this topic or theme



Addition sentence cards (2+3)
Dice/Large cubes (# 1-9)
Counters
Number picture cards
Bean bags/Target mat
Giant Floor number line
Whiteboards/markers
Pom-poms/winged insect mat
Growing with Mathematics Discussion Book
Knowledge and skills needed to meet the Unit standards.
What students need to know; that is, what are the key concepts/skills embedded in the standard(s)
Counting 1-1 correspondence
Naming numbers
Math vocabulary
Supports and strategies that lend themselves to scaffolding language and accessing content for
instruction and assessment in this unit
Inside/Outside Circle (SIOP)
Think/Pair/Share (SIOP)

Realia – using real world examples and manipulatives

Number lines

Counters/manipulatives

Coins

Part-part-total mats

Pictures/visuals

Teacher modeling

Math vocabulary word wall

#### Differentiated Language

Academic language of the tasks differentiated according to the students' levels of language proficiency Vocabulary/grammatical forms/genres that must be pre-taught for students to fully understand

#### concepts

Word/Phrase Level (Vocabulary) Equal Part-part-total Plus Minus Altogether Add Subtract

Take away

# Sentence Level/grammatical forms

Reading number sentences Understanding number sentences and word problems that are read aloud to students

# **Discourse Level(genres/text)**

Word problems associated with addition and subtraction

Content and language objective for the unit

# ✓ Students will model and understand the relationship between part-part and total.

- ✓ Students will write addition facts to model situations that show two parts.
- ✓ Students will use drawings, words, or an addition equation to solve problems.
- ✓ Students will be able to vary the order of addition equations to better understand of equality (balance) 1+3=4, 3+1=4, 4=1≠3, 4=3+1

Overall language objectives based on the academic language strand(s) of MPIs

- ✓ Students will describe addition as two parts journing together to make a total (that balances/equal).
- $\checkmark$  Entering and Emerging students will be able to name the part-part-total.
- $\checkmark\,$  Students will be able to orally read math addition and subtraction facts and numbers

- ✓ Students will describe addition as two parts joining together to make a total (that balances/equal).
- ✓ Entering and Emerging students will be able to name the part-part-total.

Common Summative Assessment and Suggest Formative Assessments

Performance Tasks: Formative/Summative Assessments

Common Summative Assessment: How students demonstrate meeting the objectives and standards through performance tasks and projects

Description of how WIDA speaking and/or writing rubric could be used for scoring the (Summative Assessment if appropriate

These are the tasks students need to demonstrate. These tasks are on our districts Progress Monitoring Sheets:

- Model and solve addition problems using objects, drawings, and equations
- Use and interpret the + and = signs
- Count on to solve addition problems
- Model and solve subtraction problems using objects drawings, and equations
- Use, and interpret the and = signs
- Decompose numbers by "breaking" them into two parts and represent with an equation Students are given a topic assessment at the end of every topic. The assessment addresses the above tasks.

## Ways to check for students' language development and academic achievement throughout the unit of

### instruction (Formative Assessment)

Teacher will observe and keep a checklist to ensure that students use academic language while preforming tasks and SIOP strategy activities like inside/outside circle.

Teacher will monitor students to make sure they are using the words on the word wall in daily speaking and writing exercises.

Students will complete practice and application activities daily to show understanding of concepts and language presented.

Students will use the Elmo or I-PAD to present their findings to the class during the review and assessment portion of daily lessons.

