

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 |
| 2 012 | 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 Λ | 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 |
| 2 007 | 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 |
| . | 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 | | | | |
| | C. | and and | | Ø | |
| | | A Start | | | |
| | <u> </u> | | | <u> </u> | 1 |
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| 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 |
| Domain: 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.

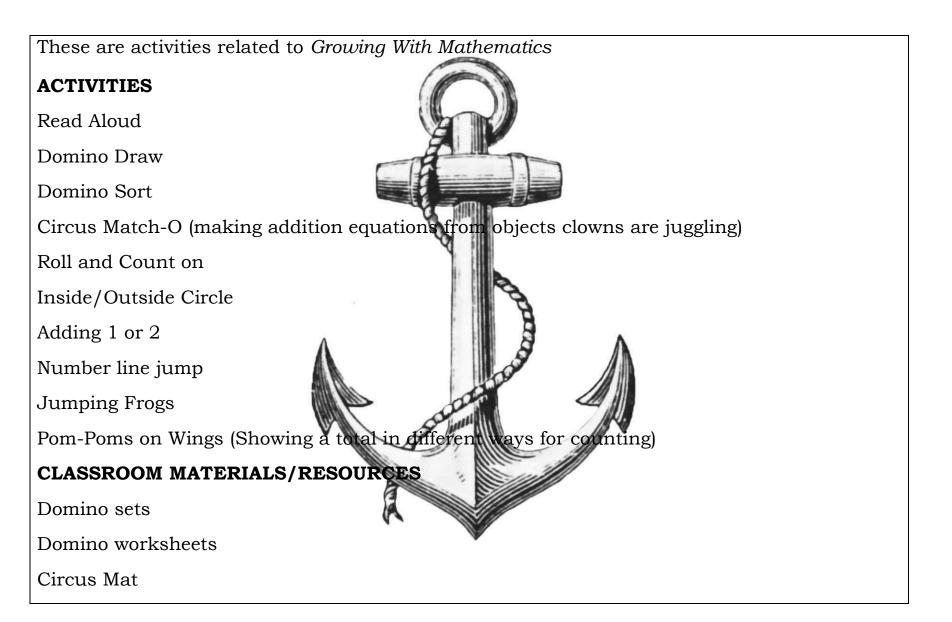
1.OA.5 We will explain the counting strategies we use to get our answers (e.g., forward, backwards, by 2s, 5s,10s, and counting on)

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.

