## PACING CHANGE

## Unit 1, 2, 3, Unit 6, 7, Unit 5, Unit 4

## Third Grade - Unit 4 Math Expressions Common Core Edition MATH EXPRESSIONS CCSS GRADE 3- UNIT 4

Hints to Unit 4

- New Groups Below and Show All Totals are introduced to help students see and discuss core mathematical ideas about addition and subtraction.
- New Groups Below
- Record the digit on the line below
- Can see the tens and ones, or hundreds and tens more closely together
- Show All Totals
- Add in each place, record total for each place then add totals to find the sum
- Reduces the problem of carrying because you write the total on each new line
- Can be done in either direction
- New Groups Above is a common algorithm, but not the only standard algorithm
- Subtraction
- Ungroup all first before they subtract
- Reduces errors
- Helps develop conceptual understanding of multi-digit subtraction
- Place value activities build understanding of the base ten numeration and provide foundation to understand the grouping and ungrouping concepts
- Use drawings to show grouping and ungrouping
- Drawings help visualize the magnitude of numbers
- Once conceptual understanding of number of ones inside each place, then move to drawings without dots (quick tens, hundreds)
- Addition and subtraction as inverse operations
- Estimating provides students with methods to validate their answers
- Variety of algorithm allows kids to choose the one that best suits them
- Each algorithm emphasizes grouping and ungrouping
- Drawings can be used to self-correct or attach meaning or explain their numerical method to someone else
- Add and sub within 1000 for fluency are based on place value and/or relationship between add and sub
- The power of the base ten system is in the repeated bundling by ten, repeating this process of creating new unit


## Second Grade skills...

Used place value properties and drawings to understand the relationship between addition and subtraction

## Third Grade..

Use place value drawings to represent numbers - this will help with rounding!!

Use place value drawings and different methods to add and subtract numbers and use place value strategies to understand the relationship between addition and subtraction

# Third Grade - Unit 4 <br> Math Expressions Common Core Edition 

## July 22, 2016

April 2017
4/10 Begin Unit 4
4/11 - end of the year - Use interim Data Results to Guide Extra Math Re-teaching opportunities
4/18 Unit 4 Quick Quiz 1
4/19 Re-teaching day for Unit 4 Quiz 1 (Mastery Learning Loop protocols)
4/27 Unit 4 Quick Quiz 2
4/28 Re-teaching day for Unit 4 Quiz 2 (Mastery Learning Loop protocols)
4/25 - 5/13 M-Step window


## Third Grade - Unit 4 <br> Math Expressions Common Core Edition

## July 22, 2016

## May 2017

5/1-5/26 M-Step window
5/11 Unit 4 Quick Quiz 3
5/12 Re-teaching day for Unit 4 Quiz 3 (Mastery Learning Loop protocols)
5/30 Math Practice Lesson from Unit 4
5/31-6/2 Window of days to utilize the Mastery Learning Loop and take the Unit 4 Test and Performance Task from Unit 6
Rest of the year - Use interim Data Results to Guide Math Re-teaching opportunities


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| Grade 3 <br> Pacing at a Glance |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Unit | 1 day for each Lessons <br> Some special cases where lessons take more than one day are accounted for and are shown in the detailed pacing guide | 1 day to reteach any concepts/strategies from the quiz | 1 test per unit 2-3 days for mastery | Instructional Days <br> (Including Mastery Learning Loop) |
| 1 | 19 | $\begin{gathered} 4 \text { days } \\ \text { (4 quizzes) } \end{gathered}$ | 2-3 | 25-26 |
| 2 | 15 | 2 days <br> (2 quizzes) | 2-3 | 19-20 |
| 3 | 15 | 3 | 2-3 | 20-21 |
| 4 | 18 | 3 | 2-3 | 23-24 |
| 5 | 11 | 2 | 2-3 | 15-16 |
| 6 | 11 | 2 | 2-3 | 15-16 |
| 7 | 9 | 2 | 2-3 | 13-14 |
|  |  |  |  |  |
| Total | 98 | 18 | 14-21 | 131-138 |

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| GRADE 3 <br> Math Rtl Grade 2 CCSS MX Teacher Edition |  |
| :---: | :---: |
| Identify numbers to 1,000 <br> 2.NBT. 3 | Unit 2 Lesson 1 Ones, tens and hundreds <br> Unit 2 Lesson 2 Activity 1 Draw Quick 10s and 100s <br> Unit 2 Lesson 3 Activity 2 Expanded form, Activity 3 Read, Write names |
| Mentally add and subtract 10 or 100 to an umber between 100 and 900 <br> 2.NBT. 8 | Unit 2 Lesson 4 Activity 3 Add 1, 10, 100 to a number |
| Compare numbers to 1,000 <br> 2.NBT. 4 | Unit 2 Lesson 5 Compare within 200 Unit 6 Lesson 3 Compare 3 digit numbers |
| Add 2-digit numbers 2.NBT.5a | Unit 2 Lesson 7 Show all totals Unit 2 Lesson 8 Activity 1 New groups below Unit 2 Lesson 13 Activity 2 Game addition |
| Subtract 2-digit numbers <br> 2.NBT.5b | Unit 4 Lesson 3 <br> Unit 4 Lesson 8 When to ungroup Unit 4 Lesson 5 Methods Unit 4 Lesson 7 Subtract from 200 Unit 4 Lesson 9 Zeros Unit 4 Lesson 11 Game subtraction |

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| Grade 4 Rtl Standards |  |
| :---: | :---: |
| Grade 3 CCSS MX Teacher Edition |  |
| Add 3 digit numbers <br> 3.NBT.2a | Unit 4 Lesson 1 Activity 1\&2 Place Value drawings Unit 4 Lesson 2 Activity $1 \& 2$ secret code cards Unit 4 Lesson 5 Activity 1 rounding Unit 4 Lesson 7 Activity 1\&2 methods Unit 4 Lesson 9 Activity 1 grouping |
| Subtract 3-digit numbers <br> 3.NBT.2b | Unit 4 Lesson 11 Activity 1 methods <br> Unit 4 Lesson 12 Activity 1,2\&3 zeros <br> Unit 4 Lesson 13 Activity 1 methods and Unit 4 Lesson 14 Activity 1 diagrams |
| Multiply numbers from 0-10 3.0A.7a | Unit 1 Lesson $1 \& 2$ All Activities Unit 1 Lesson 3 Activities $3 \& 4$ area model Unit 1 Lesson 11 Activity 1\&2 methods Unit 1 Lesson 15 Activity 4 associative property Unit 2 Lesson 1 Activity 1\&2 Strategies for 6 s Unit 2 Lesson 3 Activity 3 Strategies for 8s Unit 2 Lesson 5 Activity 2 Strategies for 7s |
| Multiplication and Division Games | Unit 1 Lesson 17 Activity 2 Unit 2 Lesson 7 Activity 2 |
| Divide numbers by 1 to 10 3.0A.7b | Unit 1 Lesson 4 Activity 2\&3 <br> Unit 1 Lesson 11 Activity 2 strategy cards Unit 1 Lesson 15 Activity 4 division rules |
| Identify fractions and their parts. <br> 3.NF. 1 | Unit 7 Lesson 1 Activity 1\&2 and Unit 7 Lesson 2 All |
| Identify fractions on a number line. <br> 3.NF. 2 | Unit 7 Lesson 2 Activity 1 bars, Activity 2\&3 lines Unit 7 Lesson 3 Activity 1\&2 locate on lines |
| Compare fractions with the same numerator or same denominator. 3.NF.3d | Unit 7 Lesson 4 \& 5 All Unit 7 Lesson 6 \& 7 All equivalence |

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Unit 4
Are you using math sense making to about math structure using math drawings to support math explaining?
Big Idea 1: Understand Place Value and Rounding

| Lesson | Quick Practice | Materials | Common Core Standard/Practice | Words To Use |
| :---: | :---: | :---: | :---: | :---: |
| 4.1 | Practice multiplications and divisions. <br> Practice with Product Cards Write Multistep Word Problems Practice with $3 \mathrm{~s}, 4 \mathrm{~s}$, and 9 s | SAB: 213-218 <br> SHC: 213-218 \& AB: 149-152 <br> (family Letter included) <br> HR: 177-178 <br> (could be included in student portfolio) | MP: 2,3,5,6,7 <br> CC.3.NBT. 1 <br> CC.3.NBT. 2 | Place value, Drawing, Ten stick Hundred box, Thousand bar |
| Lesson <br> Focus | Make and interpret place value drawings. |  |  |  |
| Formative Assessment | Ask students to explain how the number 251 is different from the number 521. Students should explain that the values are different because a 5 in the hundreds place has a value greater than a 2 in the hundreds place. Students may use place value drawings with or without dots to show how the numbers are different. |  |  |  |
| I CAN... <br> Learning <br> Targets | Instructional Strategies: <br> Student Outcome: <br> A1: Create place value drawings for 2-and 3-digit numbers. <br> A2: Interpret and make place value drawings for thousands, hundreds, tens, and ones. <br> A3: Use place value to compare numbers. |  |  |  |
| Notes |  of the grid on your math boards - be intentional about circling the dots for one, and draw a line through dots for the tens and box the lines to show the hundred. This helps to visualize the magnitude of numbers. Using sub-groups of 5 to group makes counting easier and kids have done this since grade $k$. Use drawings to compare numbers. I highly encourage saying the value of each digit when writing any number... $76-7$ tens, 6 ones - seventy-six |  |  |  |
| 4.2 | Practice multiplications and divisions. | $\begin{aligned} & \text { SAB: 219A-219D } \\ & \text { AB: 153-156 } \end{aligned}$ | MP: 2,3,5,6,7 CC.3.NBT. 1 | Digit <br> Expanded form |

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|  | Practice with Product Cards Write Multistep Word Problems Practice with $3 \mathrm{~s}, 4 \mathrm{~s}$, and 9 s | Secret code cards HR: 179-180 | CC.3.NBT. 2 | Standard form Secret Code Cards |
| :---: | :---: | :---: | :---: | :---: |
| Lesson Focus | Identify the value of a digit. |  |  |  |
| Formative Assessment | Ask students to give the value of the 8 in 384 and use the Secret Code Cards to show they are correct. Students should explain that the 8 is in the tens place and has a value of 80 . Students should expand the Secret Code Cards to show 384 and to show that the 8 has a value of 80. |  |  |  |
| I CAN... <br> Learning <br> Targets | Instructional Strategies: <br> Student Outcome: <br> A1: Read 3-digit numbers from models. <br> A2: Build 2-and 3-digit numbers with Secret Code Cards. |  |  |  |
| Notes | Read 413AA-413BB Use of the cards is beneficial for students because cards emphasize how the position of the digit in the number determines the value of the digit. Continue to emphasize place value language. Code cards has the drawing to further understand the value of each number, the numbers on the front further understanding of the position of the digit determines the value |  |  |  |
| 4.3 | Practice multiplication and divisions. <br> Practice with product Cards Write Multistep Word Problems Practice with $6 \mathrm{~s}, 7 \mathrm{~s}$, and 8 s | $\begin{aligned} & \text { SAB: } 219-220 \\ & \text { SHC: } 219-220 \end{aligned}$ <br> secret code cards HR: 181-182 (could be included in student portfolio) | MP:1,3,4,5,6,7 CC.3.NBT. 1 CC.3.NBT. 2 | Expanded form Standard form |
| Lesson Focus | Use an understanding of place value to group and ungroup multidigit numbers and solve word problems. |  |  |  |
| Formative Assessment | Ask students to explain how they can find how many baskets of 100 peaches can be made with 742 peaches and how many will be left over. Students should explain that the hundreds place tells them how many baskets of 100 can be made: 7. The tens and ones tells how many will be left over: 42. |  |  |  |
| I CAN... | Instructional Strategies: Student Outcome: |  |  |  |

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| Learning Targets | A1: Represent multi-digit numbers as sums of thousands, hundreds, tens, and ones. <br> A2: Solve place value word problems. |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Notes | Read 413AA-413BB Draw models to help understand structure. Understanding grouping and ungrouping is very important to understanding multi-digit add/sub. Any and all methods kids come up with are great to show to all kids. Use PV blocks if still struggling with concept |  |  |  |
| 4.4 | Practice multiplications and divisions. <br> Practice with Product Cards Write Multistep Word Problems Practice with $6 \mathrm{~s}, 7 \mathrm{~s}$, and 8 s | $\begin{aligned} & \hline \text { SAB: 221-222 } \\ & \text { SHC: 221-222 } \end{aligned}$ <br> secret code cards HR: 183-184 | MP: 1,3,4,5,6,7 CC.3.NBT. 1 CC.3.NBT. 2 | Counting on strategy Make a Ten strategy Hundreds Tens Ones |
| Lesson <br> Focus | Identify numbers from scrambled place value names and solve word problems. |  |  |  |
| Formative Assessment | Ask students to explain how to use place value to add $700+500$. Students should explain that 7 hundreds plus 5 hundreds is 12 hundreds or 1 thousand 2 hundred. |  |  |  |
| I CAN... <br> Learning <br> Targets | Instructional Strategies: <br> Student Outcome: <br> A1: Identify numbers expressed in scrambled order. <br> A2: Solve place value word problems. <br> A3: Extend the Counting On and Make a Ten strategies. |  |  |  |
| Notes | Read 413AA-413BB Teaching note 439!!- about using a ten frame to make decade numbers... counting on by tens to make hundreds or counting on hundreds to make thousands - all based on the hands on ten frame with objects from page 439 |  |  |  |
| 4.5 | Practice multiplication and divisions. <br> Practice with Product Cards Create Unknown Number Puzzles Practice with $6 \mathrm{~s}, 7 \mathrm{~s}$, and 8 s | $\begin{aligned} & \text { SAB: 223-224 } \\ & \text { SHC: 223-224 } \\ & \text { HR: 185-186 } \end{aligned}$ | MP: 1,2,3,5,6,8 CC.3.NBT. 1 | Estimate Round |
| Lesson <br> Focus | Round numbers to the nearest hundred to estimate sums and differences. |  |  |  |

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## Quick Quiz 1-1 Day for reteaching <br> Give quiz after teaching lesson 6 - then take this day to reteach/enrich per each quiz item.

This quiz will allow you to see if initial learning took place. If it did not the extra day is spent to spend more time with only those students that need help on the specific items on the quiz, in order to be more successful for the next Big Idea. If kids are doing well, take the time to enrich using the Differentiated Cards, or other higher order thinking activities. This time spent on re-teaching or enrichment will allow for you to keep on pace with not over teaching to only a select few that may need help, it also allows for the enrichment for students who need more of a challenge to go deeper with their understanding. Designated stopping at critical times helps eliminate unorganized re-teaching times during a lesson/activity.
Found on OAISD Math Resources K-5 (Balanced Assessment Resouces) or Think Central

## Fluency Check

## Big Idea 2: Addition and Subtraction Strategies and Group to Add



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|  | as 1 hundred $\quad{ }^{* * *}$ read lesson ahead of time ${ }^{* * *}$ All notes - read everything! $\quad$ The uniformity of the place value system facilitates understanding of place value concepts but it also provides the foundation for successfully completing standard algorithms for computation within the base ten system - when they understand numbers are composed of ones, tens, hundreds and so on they can use this understanding to decompose and compose numbers in computations without drawings. MUST make PICTURES to add and subtract before numeric methods are introduced!! Proof drawings are used to visually illustrate the grouping process in addition and the ungrouping process in subtraction. Then kids link drawings to numeric method, then move to just numerical method and use the drawing to self correct |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 4.8 | Practice multiplications and divisions. <br> Practice with Product Cards Create Poster <br> Practice with $3 \mathrm{~s}, 4 \mathrm{~s}$, and 9 s | $\begin{aligned} & \text { SAB: 231-232 } \\ & \text { SHC: 231-232 } \\ & \text { HR: 191-192 } \end{aligned}$ | MP: 1,2,3,4,5,6 CC.3.NBT. 1 CC.3.NBT. 2 | Expression |
| Lesson <br> Focus | Apply and discuss multidigit addition methods with place value alignment. |  |  |  |
| Formative Assessment | Ask students how to subtract 150-70 by counting on by tens. Students should explain one of the three methods. Count on by tens: start with 70 and count on to 150 . Place value: 7 tens +8 tens $=15$ tens. Or show the counting on with a drawing. |  |  |  |
| I CAN... <br> Learning <br> Targets | Instructional Strategies: <br> Student Outcome: <br> A1: Solve multi-digit addition problems and discuss solution methods. <br> A2: Discuss the importance of aligning place value columns before adding. <br> A3: Extend Counting On and Make a Ten subtraction strategies. |  |  |  |
| Notes | Read 413DD-413EE It is ok for kids to say 200 plus 100 plus 300 instead of 2 hundreds plus, 1 hundred plus, 3 hundreds - they need to use both Turn paper to use lines as place value columns Kids are use to only giving answers - encourage to explain 1 or 2 things about a problem $\quad=$ and $\neq$ together help clear up misconceptions - use "has the same value as" to help this too. |  |  |  |
| 4.9 | Practice multiplications and divisions <br> Practice with Product Cards Create Poster <br> Practice with $2 \mathrm{~s}, 5 \mathrm{~s}$, and 10 s | $\begin{aligned} & \text { SAB: 233-234 } \\ & \text { SHC: 233-234 } \\ & \text { HR: 193-194 } \end{aligned}$ | MP: 1,2,3,6 <br> CC.3.NBT. 2 | Grouping |
| Lesson <br> Focus | Decide when and how to group in multidigit addition. |  |  |  |

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| Formative Assessment | Ask students to explain when they need to group and how to group when adding. Students should explain that they need to group when the ones or tens are more than 9. They should also explain where to write the new group number for the method they are using. |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| I CAN... <br> Learning <br> Targets | Instructional Strategies: <br> Student Outcome: <br> A1: Discuss when and how to group when adding. <br> A2: Use addition to solve word problems with multi-digit numbers. |  |  |  |
| Notes | Read 413DD-413EE, 413II <br> Students do not need to make place value drawings once they can demonstrate they have a solid understanding of pv and grouping and can explain their addition using pv language |  |  |  |
| 4.10 | Practice multiplications and divisions. <br> Practice with Product Cards Invent Rhymes or Songs Practice with $6 \mathrm{~s}, 7 \mathrm{~s}$, and 8 s | $\begin{aligned} & \text { SAB: } 235-236 \\ & \text { SHC: 235-236 } \\ & \text { Quick Quiz } 2 \\ & \text { Fluency Check } 5 \\ & \text { HR: } 195-196 \end{aligned}$ | MP: 1,3,6 CC.3.NBT. 1 CC.3.NBT. 2 | Grouping |
| Lesson Focus | Identify and explain errors in addition and solve word problems. |  |  |  |
| Formative Assessment | Ask students to discuss examples of common errors they identified. Students should be able to explain that some common errors they found included forgetting to make a new hundred, writing the ones above the tens column and the new 1 ten in the ones column, forgetting to make a new ten, and forgetting to make a new ten and a new hundred. |  |  |  |
| I CAN... <br> Learning <br> Targets | Instructional Strategies: <br> Student Outcome: <br> A1: Identify and correct addition errors. <br> A2: Solve word problems using addition of multi-digit numbers. |  |  |  |
| Notes | Read 413DD-413EE, 413II This is a great place for kids to be specific as to what to look for when you ask them to "check their work" |  |  |  |
| Quick Quiz 2-1 Day for reteaching |  |  |  |  |

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Give quiz after teaching lesson 10 - then take this day to reteach/enrich per each quiz item.


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|  | ungrouping all at once before subtracting If kids are subtracting the lesser digit from the larger one, instead of ungrouping - draw a circle around the top numbers to bring it to their attention. This lesson is a HUGE focus on seeing the parallel presentation of their understanding of place value and addition to subtract. $\quad 490 \& 493$ read! |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 4.12 | Practice multiplications and divisions. <br> Practice with Product Cards Coaching <br> Practice with $3 \mathrm{~s}, 4 \mathrm{~s}$, and 9 s | SAB: 239-242 <br> SHC: 239-242 <br> HR: 199-200 (could be included in student portfolio) | MP: 1,2,3,4,6 CC.3.NBT. 2 | Ungrouping |
| Lesson Focus | Subtract with zeros in the top number. |  |  |  |
| Formative Assessment | Ask students to explain a method to subtract across zeros in the top number. Students should be able to explain the process of ungrouping to subtract. |  |  |  |
| I CAN... <br> Learning <br> Targets | Instructional Strategies: <br> Student Outcome: <br> A1: Solve subtraction problems with zeros in the top number. <br> A2: Practice subtraction with zeros in the top number. <br> A3: Decide when to ungroup. |  |  |  |
| Notes | Read 413FF-413GG Ungroup first using drawings helps connect the conceptual understanding of subtraction Plus ungrouping first has less chances for errors subtract with 0's introduced early using methods in MX and using ungroup first - very successful and makes multi-digit sub less difficult Use drawings when at the board - kids don't need to on homework if they really get it, but if they are demonstrating they need to use drawings at the board also! Read 499-500 |  |  |  |
| 4.13 | Practice multiplications and divisions. <br> Practice with Product Cards Practice with $6 \mathrm{~s}, 7 \mathrm{~s}$, and 8 s | $\begin{aligned} & \text { SAB:243-244 } \\ & \text { SHC: 243-244 } \\ & \text { HR: 201-202 } \end{aligned}$ | MP: 1,2,3,5,6 CC.3.NBT. 2 |  |
| Lesson Focus | Subtract using two different methods. |  |  |  |
| Formative | Ask students to explain two subtraction methods-ungrouping from the left and ungrouping from the right. Students should be |  |  |  |

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| Assessment | able to explain the process of ungrouping to subtract. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| I CAN... <br> Learning <br> Targets | Instructional Strategies: <br> Student Outcome: <br> A1: Compare two subtraction methods - ungrouping from the left and ungrouping from the right. <br> A2: Practice subtraction of 3-digit numbers. |  |  |  |  |
| Notes | Read 413FF-413GG Working from left to right especially when you get to zeros is so much easier!! |  |  |  |  |
| 4.14 | Practice multiplications and divisions. <br> Practice with Product Cards Practice with $2 \mathrm{~s}, 5 \mathrm{~s}$, and 10 s |  | SAB: 245-246 <br> SHC: 245-246 <br> HR: 203-204 (could be included in student portfolio) | MP: 1,2,3,4,5,6,7,8 CC.3.NBT. 2 | Grouping, Ungrouping Math Mountain, Addend Total |
| Lesson <br> Focus | Relate grouping in addition and ungrouping in subtraction. |  |  |  |  |
| Formative Assessment | Ask students to explain how addition and subtraction are related. Students should explain that one undoes the other. If the addend in an addition is subtracted from the sum, the result will be the other addend. The numbers in an addition and its related subtraction are the same. The proof drawings show the same numbers and the after grouping matches the before ungrouping and the before grouping matches the after ungrouping. |  |  |  |  |
| I CAN... <br> Learning <br> Targets | Instructional Strategies: <br> Student Outcome: <br> A1: Analyze frequency tables and line plots. <br> A2: Make a line plot using a set of data that includes fractions. |  |  |  |  |
| Notes | Read 413FF-413HH Math mountains help conceptualize the relationship between the addition and subtraction Use math mountains to represent the relationship in word problems. By thinking about addition and subtraction in terms of a total and two parts, students can understand the relationship between addition and subtraction. <br> Use blocks if having trouble with understanding <br> This lesson can help with mental math standard <br> Label the mountain may help with understanding word problems |  |  |  |  |
| 4.15 | Practice multiplications and divisions. |  | $\begin{aligned} & 247-248 \\ & 247-248 \end{aligned}$ | $\begin{aligned} & \text { MP: 3,6 } \\ & \text { CC.3.NBT. } 2 \end{aligned}$ |  |

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| Learning Targets | A2: Create and solve addition and subtraction word problems. |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Notes | Read 413HH-413II |  |  |  |
| 4.17 | Practice multiplications and divisions. <br> Practice with Product <br> Cards <br> Practice with $6 \mathrm{~s}, 7 \mathrm{~s}$, and 8s | SAB: 251-252 <br> SHC: 251-252 <br> HR: 209-210 <br> Quick Quiz from lesson 18 | MP: 1,3,4,5,6,7,8 <br> CC.3.OA. 8 <br> CC.3.OA. 9 <br> CC.3.NBT. 1 <br> CC.3.NBT. 2 | Associative Property of Addition Commutative Property of Addition Identity Property of Addition |
| Lesson <br> Focus | Solve word problems that involve two or more steps and assess reasonableness. |  |  |  |
| Formative Assessment | Write this problem on the board. Yvette had 18 mysteries and 15 biographies. Then she bought a group of 12 science fiction books. How many books does Yvette have now? Ask students to describe a strategy they would use to solve the problem. Students should be able to explain they would write the equation $18+15+12=n$. Next, use the commutative Property to switch the order of addends: $18+12+15=n$. Then use the Associate Property to group the numbers to make them easier to add. |  |  |  |
| I CAN... <br> Learning Targets | Instructional Strategies: <br> Student Outcome: <br> A1: Identify patterns and relate to addition properties. <br> A2: Assess reasonableness of answers. |  |  |  |
| Notes | Read 413II Understanding commutative property you might want to give use real world problems read p539 Addition table helps to see patterns |  |  |  |
| Quick Quiz 3 (found at the end of lesson 18) - 1 Day for reteaching $z$ after teaching lesson 17 - then take this day to reteach/enrich per each quiz item. |  |  |  |  |

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## Balanced Assessment Resources and Protocols

The balanced assessment is made up of 2 components: the current unit content (Unit test) and prior content at a varying depth of knowledge (Performance Task).

## Unit 4 Test and Review

Give All Students the Review Test A as a Pre-test at the END of the unit - then 2-3 days to reteach/enrich each test item Post-Test students that were identified as needing re-teaching to the specific test items to demonstrate proficiency This test will allow you to see if after initial learning took place, the student was able to retain the information. If it did not the extra day(s) is spent to allow for more time with only those students that need help on the specific items on the test, in order to be more successful for the next Unit. If kids are doing well, take the time to enrich using the Differentiated Cards, or other higher order thinking activities. This time spent on reteaching or enrichment will allow for you to keep on pace with not over teaching to only a select few that may need help, it also allows for the enrichment for students who need more of a challenge to go deeper with their understanding. Designated stopping at critical times helps eliminate unorganized re-teaching times during a lesson/activity.

## Performance Task

Use the Unit 5 Performance Task to incorporate the balanced assessment review of a higher depth of knowledge to check students understanding of the application of the prior unit's concepts and strategies.
This performance task might be taught as a whole group, small group or in pairs. The requirements of taking a task might still be new to students so you may want to take one day to both review the rubrics and strategies to thoroughly answer all parts of the task. The role of the teacher to facilitate the Math Talk will be a critical piece to having the students take ownership of their learning and ability to complete the Performance Task.

Found on OAISD Math Resources K-5 (Balanced Assessment Resources)


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