Optional Lesson
Extension Lesson
Remedial Lesson

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|  |  |  | numbers $2,3,4,5$, and 6 . You can carousel model, spending 7-8 minutes at each problem. |
| :---: | :---: | :---: | :---: |
| By the end of Topic B, your students should be able to: <br> - Use place value to compare whole numbers up to a million using symbols to show the comparison (<, $>$, <br> Snapshot Assessment: 4.NBT. 2 Problems 3-4 <br> Example: <br> 4. Compare the values of the <br> underlined digits. Using ">, <, or ="'. <br> (DOK 1) <br> $8 \underline{41} 4 \underline{7} 5$ <br> 1,689 $\qquad$ 5,9플 |  |  |  |
| 4.NBT. 3 | C | Rounding Multi-Digit Whole Numbers <br> Lesson 7: Round multi-digit numbers to the thousands place using the vertical number line. <br> Lesson 8: Round multi-digit numbers to any place using the vertical number line. <br> Lesson 9-10: Use place value understanding to round multi-digit numbers to any place value using real world applications. <br> Combine Lesson 9 \& 10 | Days: 3 <br> Use the problem set from Lesson 10 when combining Lessons 9 and 10. |

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By the end of Topic C, your students should be able to:

- Round numbers up to a million to any place.


## Snapshot Assessment 4.NBT. 3 Problems 1-4

Example: 3. Use the number line below to
show which hundred 781 rounds to.
(DOK 1)
700800
$\longleftrightarrow$

Explain how you know.

## 3 Days for Remediation, Enrichment, Mid-Module Assessment

## Suggested Tasks:

Relative Value of Places Task and Rubric: This tasks allows students to understand the value of each digit and the relationship between them. ( 60 minutes)- 1 Day

Revisit lesson 9 for rounding as a remediation or do Problem Solving Task Where's The Beef? - 1 Day
Mid-Module Assessment Word Document: Spend one day using mid module assessment task. Modify problem 3 to fit your students' needs. -1 Day

| 4.OA.3 | D | Multi-Digit Whole Number Addition <br> L.NBT.4 |  |
| :--- | :---: | :--- | :--- |
| Lesson 11: | Use place value understanding to fluently add multi-digit whole numbers using the <br> standard addition algorithm and apply the algorithm to solve word problems |  |  |
| 4.NBT.1 |  |  |  |
| 4.NBT.2 |  | Using tape diagrams. |  |
| Lesson 12: | Solve multi-step word problems using the standard addition algorithm modeled <br> with tape diagrams and assess the reasonableness of answers using rounding. |  |  |

Days: 2

By the end of Topic D, your students should be able to:

- Add three and four digits using the standard algorithm with minimal errors. (Working toward fluency within a million by March).
- Solve single step word problems using addition.


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- Assess their work and the work of others for reasonableness using estimation, mental math, and rounding.


## Snapshot Assessment 4.OA. 3 Problem 1 Example:

1. On a vacation, your family travels 267
miles on the first day, 194 miles on the
second day, and 34 miles on the third day.
How many miles did they travel total?
(DOK 1)

Snapshot Assessment 4.NBT. 4 Problems 1-4 Example:
4. Bethany and Carl both solved

$$
9,718+3,856=?
$$

Bethany's answer was 13,574
Carl's answer was 12,574.
Who is correct? How do you know? (DOK 2)

| 4.OA. 3 <br> 4.NBT. 4 <br> 4.NBT. 1 <br> 4.NBT. 2 | E | Multi-Digit Whole Number Subtraction |  |
| :---: | :---: | :---: | :---: |
|  |  | Lesson 13: | Use place value understanding to decompose to smaller units once using the standard subtraction algorithm, and apply the algorithm to solve word problems using tape diagrams. |
|  |  | Lesson 14: | Use place value understanding to decompose to smaller units up to 3 times using the standard subtraction algorithm, and apply the algorithm to solve word problems using tape diagrams. |
|  |  | Lesson 15: | Use place value understanding to fluently decompose to smaller units multiple times in any place using the standard subtraction algorithm, and apply the algorithm to solve word problems using tape diagrams. |
|  |  | Lesson 16: | Solve two-step word problems using the standard subtraction algorithm fluently modeled with tape diagrams and assess the reasonableness of answers using rounding. |

## Days: 4

Lesson 16: The sprints in Lesson 16 and Lesson 19 are going to build foundational skills for the next unit, consider a short pre-teach for more success.

By the end of Topic $E$, your students should be able to:

- Subtract three and four digits using the standard algorithm with minimal errors. (Working toward fluency to subtract within a million by March).
- Solve two step word problems using subtraction.


## Snapshot Assessment 4.OA. 3 Problem 2 <br> Example:

The ice cream shop sold 2,789 chocolate cones and 5,324 cookie dough cones. They then sold 3,606 more peanut butter cones than cookie dough. What was the total number of ice cream cones sold?

Snapshot Assessment 4.NBT. 4 Part B Problems $1 \& 4$

## Example:

Subtract $\quad 8,453-2,467=$

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| $\begin{aligned} & \text { 4.OA. } 3 \\ & \text { 4.NBT. } 1 \\ & \text { 4.NBT. } 2 \\ & \text { 4.NBT. } 4 \end{aligned}$ | F | Addition and Subtraction Word Problems |  | Days: 2 <br> If pacing is a challenge, consider omitting Lesson 17 since multi-step problems are taught in Lesson 18. Instead, embed problems from Lesson 17 into Module 2 or 3 as extension. Since multistep problems are taught in Lesson 18, Lesson 19 could also be omitted. |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Lesson 17: | Solve additive compare word problems modeled with tape diagrams. |  |
|  |  | Lesson 18: | Solve multi-step word problems modeled with tape diagrams and assess the reasonableness of answers using rounding. |  |
|  |  | Lesson 19: | Create and solve multi-step word problems from given tape diagrams and equations. |  |

By the end of Topic F, your students should be able to:

- Solve multistep word problems using addition and subtraction
- Skillfully use tape diagram or other models to represent word problems with addition and subtraction.


## Sample Assessment 4.0A. 3 (No adding and subtracting multistep Snapshot available on TFL). <br> Example:

A bakery used $12,674 \mathrm{~kg}$ of flour. Of that, $1,802 \mathrm{~kg}$ was whole wheat and 888 kg was rice flour. The rest was all-purpose flour. How much all-purpose flour did they use? Solve and check the reasonableness of your answer.


## 3 Days for Re-Assessment, Remediation and Enrichment

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## Suggested Tasks:

Carnival Tickets Problem Solving Task -1 Day
End of Module Assessment Problems 1-3. However, problem 3 can be a little confusing for students as it discusses population of various towns. Recommended to launch the assessment with a talk about these towns. You could also replace the towns' names with more familiar names (i.e. Tacoma, Federal Way, Seattle). -1 Day

End of Module Assessment Word Document
Return Tests and Remediate or extend lessons for further application-1 Day
Total Instructional Days: 24
Links Used:
Lesson 4: How do you Write a Check to Pay for Something? http://robertkaplinsky.com/work/write-a-check/
Lesson 6: Howard County NBT. 2 Assessment Tasks
https://grade4commoncoremath.wikispaces.hcpss.org/assessing+4.NBT. 2
End of Unit Problem Solving Task Carnival Tickets https://www.illustrativemathematics.org/contentstandards/4/OA/A/3/tasks/1289

| Standards | Topic and Objectives |  |  |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 4.MD. } 1 \\ & \text { 4.MD. } 2 \end{aligned}$ | A | Metric Unit ConversionsLesson 1:Lesson 2: $\quad$Express metric length measurements in terms of a smaller unit; model and solve <br> addition and subtraction word problems involving metric length.Lesson 3: $\quad$Express metric mass measurements in terms of a smaller unit; model and solve <br> addition and subtraction word problems involving metric mass. | Days: 3 |
| Snapshot Assessment Standard 4.MD. 1 <br> Example: <br> 1 km= $\qquad$ $\mathrm{m}, \quad 3 \mathrm{~m} 56 \mathrm{~cm}=$ $\qquad$ cm |  |  |  |
| $\begin{aligned} & \text { 4.MD. } 1 \\ & \text { 4.MD. } 2 \end{aligned}$ | B | Application of Metric Unit ConversionsLesson 4: Know and relate metric units to place value units in order to express <br> measurements in different units. Lesson 5: $\quad$Use addition and subtraction to solve multi-step word problems involving length, <br> mass, and capacity. | $\text { Days: } 1$ <br> Optional Lesson 4, it is a great review lesson, as well as the pattern sheet on 2.B. 11 |
| By the end of Topic B, your students should be able to: <br> - Solve two step addition and subtraction word problems involving measurement. <br> Snapshot Assessment Standard 4.MD. 2 <br> Example: <br> 4. There are 3 kg of rice. If each bag can hold 500 g , how many bags are needed? <br> Jafar thinks 6 bags are needed. Jasmine <br> thinks 3 bags are needed. Who is correct? <br> Explain your thinking. (DOK 2) |  |  |  |

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## 2 Days for Re-Assessment, Remediation and Enrichment

End of Module Assessment Word Document:
Problems 1-4a\&b (4c is more than two steps, could be extra credit or challenge problem). - 1 Day
Return Tests and Remediate or extend lessons for further application.
If this isn't needed, do Module 3, Lesson 1 Concept Development Problem 1 as is a great front load for the following unit on area and perimeter. - 1 Day

Total Instructional Days: 6

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| Standards | pic and Objectives |  |  |  | Instructional Notes |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4.OA. 1 4.OA. 2 4.MD. 3 4.OA. 3 | A | Multiplicative Comparison Word ProblemsLesson 1: $\quad$Investigate and use the formulas for area and perimeter of rectangles. <br> Lesson 2: <br> Solve multiplicative comparison word problems by applying the area and <br> perimeter formulas.Lesson 3: $\quad$Demonstrate understanding of area and perimeter formulas by solving multi-step <br> real world problems. |  |  | Days: 3 <br> **Lesson 1- If pacing is a challenge, omit problems 1 and 4 in in concept development. |
| By the end of Topic A, your students should be able to: <br> - Use formulas to solve problems with area and perimeter <br> - Find the measurement of an unknown lengths and widths <br> - Solve word problems by solving for a missing number <br> Snapshot Assessment: 4.OA. 2 Problem 1 Example: <br> 1. Write the problem using a variable to represent the unknown number and solve. <br> (DOK 1) <br> A rubber band is stretched to be 18 cm long and that is 3 times as long as it was at first. How long was the rubber band at first? <br> Snapshot Assessment: 4.MD. 3 Problems 1\&3 Example <br> 1. Use the rectangle to solve the problem. <br> The area of the rectangle is $420 \mathrm{~cm}^{2}$. What is the perimeter of the rectangle? (DOK 1) |  |  |  |  |  |
| $\begin{aligned} & \text { 4.NBT. } 5 \\ & \text { 4.OA. } 1 \\ & \text { 4.OA. } 2 \\ & \text { 4.NBT. } 1 \end{aligned}$ | B | Multiplication Lesson 4-5: Lesson 6: | by 10,100 , and 1 , Interpret and repr arrays and numeric <br> Multiply two-digit model. | multiplying by 10,100 , and 1,000 in <br> and 5 <br> two-digit multiples of 10 with the area | Days: 2 <br> Lessons 4 \&5: Combine concept development of Lesson 4-5. Use page 2 of both Problem Sets. |

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By the end of Topic $B$, your students should be able to:

- Multiply a whole number by multiples of 10 .


## Snapshot Assessment: 4.NBT. 1

## Example:

$30 \times 10=23 \times 10=4 \times 4,000=$

| $\begin{aligned} & \text { 4.NBT. } 5 \\ & \text { 4.OA. } 2 \\ & \text { 4.NBT. } 1 \end{aligned}$ | C | Multiplication of up to Four Digits by Single-Digit Numbers <br> Lesson 7-8: Use place value disks to represent up to four-digit by one-digit multiplication. <br> Lessons 9-10: Multiply three- and four-digit numbers by one-digit numbers applying the standard algorithm. <br> Lesson 11: Connect the area model and the partial products method to the standard algorithm. | Days: 3 <br> Lessons 7\&8: Combine concept development of these lessons. <br> **In Lesson 8, omit the drawing of models in problem 2 and 4 in the concept development. Instead, have students think about and visualize what they would draw. Also omit the drawing with discs in problem 2 in the problem set. <br> **Lesson 9: This skill is where students should be when looking at the January benchmark. <br> **Lesson 10: This skill is the benchmark level for March. |
| :---: | :---: | :---: | :---: |

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## By the end of Topic C, your students should be able to:

- Multiply 3 digits by a single digit using partial products, standard algorithm, and/or an area model. (Working toward multiplying 4 digits by 1 digit and 2 digits by 2 digits by March).


## Snapshot Assessment: 4.NBT. 5 Example:

3. Draw and label an area model to solve:
$263 \times 4=$ $\qquad$

4.OA.1 $\quad \mathrm{D} \quad$ Multiplication Word Problems
4.OA. 2 Lesson 12-13: Use multiplication, addition, or subtraction to solve multi-step word problems, including multiplicative comparisons.

Combine Lesson 12 \& 13

## 1 Day Math Task: Comparing Money Raised

In this task, it builds meaning for multiplication strategies through word problems. It also shows how multiplication equations model a situation. This is 2 by 1 -digit; you could change the number to be a 3 by 1 or a 4 by 1 depending on your students' needs.

## Days: 2

Use concept development from Lesson 12. With pacing in mind, consider using problems 1 and 4 from Lesson 12 and problems 2 and 3 from Lesson 13.

By the end of Topic $D$, your students should be able to:

- Solve two step word problems using multiplication.
- Solve word problems solving multiplicative comparisons.


## Snapshot Assessment: 4.NBT. 5 Problem 1 Example:

1. Sue walks 2 miles to school every day except on Tuesdays. How many miles does Sue walk to school in 3 weeks? (DOK 1)

## Snapshot Assessment: 4.OA.1 Example:

Jonathan has 4 pieces of gum. Alondra has 2 times as many. How many pieces of gum does Alondra have?

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## 2 Days for Remediation, Enrichment, Mid-Module Assessment

Suggested Tasks: Krispy Kreme Me : In this task, students make estimates using multiplication and area to figure out how many doughnuts are in a giant Krispy Kreme box.
Mid Module Assessment Word Document Problems 1-5. All problems are relevant to content taught. (1 Day)

|  | E |  |  |  | Days: 4 <br> **Lessons 14 \& 15: focus on area and array model Lesson 16 and 17: Omit, continue focus on area \& array models **Lesson 18: Solve division problems using standard algorithm, not using place value disk models. The place value disk model for division was confusing for students. Lesson 19: Omit; imbed discussion of interpreting remainders into other division lessons. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| By the end of Topic E , your students should be able to: <br> - Interpret a remainder within division word problems. <br> - Find whole number quotients with 2 digit dividends and 1 digit divisors using array and area mod <br> Snapshot Assessment: 4.NBT. 6 <br> Example: <br> Snapshot Assessment: 4.OA. 3 Problem 2 <br> Example: <br> 2. Frank has 234 baseball cards that he equally divided into 3 bags. He then took one of these bags and equally split up the baseball cards from the bag into 3 more bags. How many baseball cards were in each of these bags? (DOK 2) |  |  |  |  |  |
|  |  |  |  |  |  |

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[^0]|  |  | Lesson 33: | Explai for thr | model of division to the long division algorithm | geometry concepts. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| By the end of Topic G, your students should be able to: <br> - Find whole number quotients with 3 digit dividends and 1 digit divisors using array and area mode standard algorithm and using 4 digit dividends in March. <br> - When solving word problems, students will know the difference between problems where either numb unknown. <br> Snapshot Assessment: 4.NBT. 6 Problem 2 Example: <br> 2. Solve $444 \div 7=$ $\qquad$ <br> Show your thinking. (DOK 1) <br> Snapshot Assessment: 4.OA. 3 Problem 4 Example: <br> 4. Mr. Torres sold a total of 30 boxes of sports cards at his store. Each box contained 25 sports cards. He wants to display his cards on 5 shelves. How many cards will be on each shelf? |  |  |  |  |  |
| $\begin{aligned} & \hline \text { 4.NBT. } 5 \\ & \text { 4.OA. } 3 \\ & \text { 4.MD. } 3 \end{aligned}$ | H | Multiplicati <br> Lesson 34- <br> Lesson 36: <br> Lessons 37 | of Two-D <br> Multiply and an <br> Multiply <br> : Transitio two-digi | ers <br> by two-digit numbers using a place value chart <br> sons 34 \& 35 <br> umbers using four partial products. <br> ucts to the standard algorithm for two-digit by | Days: 4 <br> Lessons 34-35: Combine concept development of Lessons 34-35 or choose one. These have the same objective. <br> Consider spending 3 days on Lessons and 1 day on practice. |
| By the end of Topic H, your students should be able to: <br> - Multiple 2 digits by 2 digits by using area model and partial products, working towards mastery of standard algorithm by March. <br> Snapshot Assessment: 4.NBT. 5 Problem 4 <br> Example: 4. Draw and label an area model to solve: $23 \times 18=$ $\qquad$ |  |  |  |  |  |
|  |  |  |  |  |  |

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## 3 Days for Re-Assessment, Remediation and Enrichment

## Suggested Tasks:

Howard County NBT. 5 Assessment Tasks: These tasks give good practice for multiplying up to 4 digits. From here, you can pick the level of difficulty to meet your students' needs. Consider doing a carousel model.
Problem Solving Tasks: The Baker: In this task, students will demonstrate their understanding and make sense of the relationship between multiplication and division skills. *There is an error on the student work page, white out one of the "bagel" boxes
Public Schools of North Carolina provides additional multiplication and division rich tasks students could work on
Mental Division Strategy allows students a chance to analyze strategies.

End of Module Assessment Word Document Problems 1-3,5, 6a-c *Consider omitting number 4 because of number disks.
Total Instructional Days: 32
Links Used:
Mid Module Remediation Problem Solving Task: Krispy Kreme Me http://gfletchy.com/krispy-kreme-me/
Mid Module Remediation Problem Solving Task: Comparing Money Raised http://achievethecore.org/page/615/comparing-money-raised-task

End of Module Remediation Howard County NBT. 5 Assessment Tasks
https://grade4commoncoremath.wikispaces.hcpss.org/assessing+4.NBT.5
End of Module Remediation The Baker http://www.insidemathematics.org/assets/common-core-math-
tasks/the\%20baker.pdf
End of Module Remediation Public Schools of North Carolina
http://3-5cctask.ncdpi.wikispaces.net/4.NBT.4-4.NBT. 6
End of Module Remediation Mental Division Strategy https://www.illustrativemathematics.org/content-
standards/4/NBT/B/6/tasks/1774

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| Standards |  |  | Topic and Objectives | Instructional Notes |
| :---: | :---: | :---: | :---: | :---: |
| 4.G.1 | A | Lines and Angles |  | Days: 3 <br> **In Lesson 2 The picture in problem set number 2 is optional, as the graphic makes it challenging to identify the angles. Keep right angle templates for Lesson 15. Combine the concept development in Lesson 3 and 4. The problem set includes page 1 of each lesson. Please check online resources for practice with interactive geometry tools. |
|  |  | Lesson 1: | Identify and draw points, lines, line segments, rays, and angles and recognize them in various contexts and familiar figures. |  |
|  |  | Lesson 2: | Use right angles to determine whether angles are equal to, greater than, or less than right angles. Draw right, obtuse, and acute angles. |  |
|  |  | Lesson 3-4: | Identify, define, and draw perpendicular and parallel lines. <br> Combine Lessons 3 and 4 |  |

By the end of Topic A, your students should be able to:

- Identify and draw points, lines, line segments, rays, and angles.


## SBAC Released Items:



Example Stem: Click in the box that matches each figure with
its description. Each figure may be matched to more than one
description.

|  | description. <br> Has at <br> least one <br> right angle | Has at least <br> one pair of <br> perpendicular <br> sides | Has at <br> least one <br> pair of <br> parallel <br> sides |
| :--- | :--- | :---: | :---: |
| $\square$ |  |  |  |
| Restangle |  |  |  |

## Snapshot Assessment 4.G.1

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| $\begin{aligned} & \text { 4.MD. } 5 \\ & \text { 4.MD. } 6 \end{aligned}$ | B | Angle Mea <br> Lesson 5: <br> Lesson 6: <br> Lesson 7: <br> Lesson 8: | ment <br> Use a circular protractor to understand a 1 -degree angle as $1 / 360$ of a turn. Explore benchmark angles using the protractor. <br> Use varied protractors to distinguish angle measure from length measurement. Measure and draw angles. Sketch given angle measures and verify with a protractor. <br> Identify and measure angles as turns and recognize them in various contexts. | Days: 3 <br> Instead of Lesson 5, consider using Which Wedge is Right? <br> **Lesson 6 concepts developed in Lesson 5 |
| :---: | :---: | :---: | :---: | :---: |
| By the end of Topic $B$, your students should be able to: <br> - Know that a circle is $360^{\circ}$, a straight line is $180^{\circ}$, and two rays can meet to form other angle measures <br> - Use a protractor to measure angles. <br> - Draw angles when given a specific angle measure. <br> Sample Assessment 4.MD. 5 <br> Sample Assessment 4.MD. 6 <br> 1) What angle is shown below? |  |  |  |  |
| 1) <br> A. $50^{\circ}$ <br> B. $22^{\circ}$ <br> C. $150^{\circ}$ <br> D. $120^{\circ}$ |  |  |  |  |
| Suggested Tasks: <br> Consider using Lesson 6 to further develop concepts learned in Lesson 5 OR additional assessments from Howard County. - 1 Day <br> Mid Module Assessment Word Document Problems 1-5. -1 Day |  |  |  |  |

[^1]

[^2]|  | Lesson 15: | Classify quadrilaterals based on parallel and perpendicular lines and the <br> presence or absence of angles of a specified size. <br> Reason about attributes to construct quadrilaterals on square or triangular grid <br> paper. | Lesson 15 requires grid <br> paper, a ruler, and right <br> angle templates from Lesson <br> 2. For Lesson 16, use link <br> provided in Concept <br> Development for triangular <br> grid paper. |
| :--- | :--- | :--- | :--- | :--- | :--- |

By the end of Topic $D$, your students should be able to:

- Recognize and draw lines of symmetry in 2-D figures.
- Identify and classify triangles based on side length, angle measure, or both.
- Construct triangles.
- Classify quadrilaterals based on their sides and angles.
- Construct quadrilaterals on grid paper based on their attributes.


## SBAC Released Items

Example Stem: Click in the box that matches each figure with its description. Each figure may be matched to more than one description.

|  | Has at least one right angle | Has at least one pair of perpendicular sides | Has at least one pair of parallel sides |
| :---: | :---: | :---: | :---: |
| Rectangle |  |  |  |
|  |  |  |  |
|  |  |  |  |

Example Stem: Decide whether the line appears to be a line of symmetry for the shape. Select Yes or No for each shape.


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## 2 Days for Re-Assessment, Remediation and Enrichment

Suggested Tasks: Consider using Problem Solving Task The Shape of Things to design logos with rotational symmetry for a fictional company OR a fun 2D/3D Circle Folding Activity OR Quilt Making where students demonstrate their understanding of concepts of 2 dimensional shapes and their properties.

End of Module Assessment Word Document Problems 1-4. Consider cutting out some of the problems as they can be reperitive.
Total Instructional Days: 18

Links Used:
Lesson 1-3 Interactive Geometry Tools http://www.internet4classrooms.com/skill builders/geometry math fourth 4th grade.htm
Lesson 5 Which Wedge is Right? http://cloud.rpsar.net/edocs/Math/4thGrade/CIResources/Q4/Which Wedge is Right.pdf
Lesson 7 Angle Tangle $\quad$ http://cloud.rpsar.net/edocs/Math/4thGrade/CIResources/Q4/Angle Tangle.pdf
Mid Module Remediation https://grade4commoncoremath.wikispaces.hcpss.org/Assessing+4.MD. 5
End of Module The Shape of Things http://www.insidemathematics.org/assets/problems-of-the-
month/the\%20shape\%20of\%20things.pdf
End of Module 2D/3D Circle Folding Activity
http://flesolcobbcentral.typepad.com/cobb math esol/files/vocab with paper.pdf
End of Module Quilt Making http://www.insidemathematics.org/assets/common-core-math-tasks/quilt\ making.pdf

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Optional Lesson
Extension Lesson
Remedial Lesson

| Standards | Topic and Objectives |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 4.NF.3b } \\ & \text { 4.NF.4a } \\ & \text { 4.NF.3a } \end{aligned}$ | A | Decomposition and  <br> Lesson 1-2: Dec <br> Lesson 3: Dec <br>  frac <br> Lesson 4: Dec <br> Lesson 5: Dec <br> Lesson 6: Dec | fractions using tape diagrams. <br> present them as a whole number times a unit <br> aller unit fractions using tape diagrams. models to show equivalence. <br> els to show equivalence. | Days: 4 <br> Lessons 1-2: Combine the concept development of lesson 1 and lesson 2. Use the problem set from lesson 2. <br> Teacher Prep: Have student and teacher materials prepared prior to lesson. <br> Optional Lesson 4: <br> Concepts developed in lessons 1-3. |
| By the end of Topic A, your students should be able to: <br> - Decompose a fraction into a sum of fractions with the same denominator <br> - Decompose fractions using the area model to show equivalent fractions |  |  |  |  |
| Sample Assessment Standard 4.NF.3b |  |  | Example Stem: Enter the unknow equation true. $\frac{4}{12}=\square \times \frac{1}{12}$ | number that makes the |

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## 4.NF. 1

## B Fraction Equivalence Using Multiplication and Division

Lessons 7: Use the area model and multiplication to show the equivalence of two fractions.
Lessons 8: Use the area model and multiplication to show the equivalence of two fractions.
Lessons 9: Use the area model and division to show the equivalence of two fractions.
Lessons 10: Use the area model and division to show the equivalence of two fractions.
Lesson 11: Explain fraction equivalence using a tape diagram and the number line, and relate that to the use of multiplication and division.

## By the end of Topic B, your students should be able to:

- Use area, multiplication and division, number line, or models to show and explain the equivalence of two fractions


## SBAC Released Item 4.NF.1:

Example Stem: Figure A has $\frac{2}{3}$ of its whole shaded gray.


## Figure A

Decide whether each fraction is equal to $\frac{2}{3}$. Select Yes or No for each fraction.

|  | Yes | No |
| :---: | :---: | :---: |
| $\frac{4}{6}$ |  |  |
| $\frac{1}{2}$ |  |  |
| $\frac{8}{12}$ |  |  |

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| 4.NF.2 |
| :--- |

## 4.NF.3a $\quad$ D $\quad$ Fraction Addition and Subtraction

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| 4.NF.3d <br> 4.NF. 1 <br> 4.MD. 2 | Lesson 16: Use visual models to add and subtract two fractions with the same units <br> Lesson 17: Use visual models to add and subtract two fractions with the same units, including subtracting from one whole. <br> Lesson 18: Add and subtract more than two fractions. <br> Lesson 19: Solve word problems involving addition and subtraction of fractions. <br> Lessons 20-21: Use visual models to add two fractions with related units using the denominators $2,3,4,5,6,8,10$, and 12 . <br> Combine Lessons 20 and 21 <br> 1 Day Math Task: Chocolate Bar Fractions | Lessons 20-21: Combine the concept development of Lesson 20 and Lesson 21. Use the problem set page 1 from both Lesson 20 and 21 and the sprint from Lesson 21. |
| :---: | :---: | :---: |

By the end of Topic D, your students should be able to:

- Use visual models to add and subtract fractions
- Use visual models to subtract a fraction from one whole
- Add and subtract fractions where one denominator is a multiple or factor of the other (denominators: $2,3,4,5,6,8,12$, 10,100 )

Sample Assessment 4.NF.3a
Example Stem: Select the model that matches this equation.
$\frac{5}{8}=\frac{2}{8}+\frac{3}{8}$


## Sample Assessment 4.NF.3d

Example Stem 1: Enter the unknown number that makes the equation true.

$$
\frac{7}{5}-\square=\frac{4}{5}
$$

Example Stem 2: Enter the unknown number that makes the equation true.

$$
\frac{4}{5}=\square+\frac{2}{5}
$$

2 Days for Remediation, Enrichment, Mid-Module Assessment
Mid-Module Assessment Word Document

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## Suggested Tasks:

- Got Your Number, Level C This task (and the ones at the end of the unit) covers a variety of standards from this module. Any of these tasks could be used at any point in the module, depending on the needs of your students.

| $\begin{aligned} & \hline \text { 4.NF. } 1 \\ & \text { 4.NF. } 2 \\ & \text { 4.NF. } 3 \\ & \text { 4.NBT. } 6 \\ & \text { 4.NF.4a } \\ & \text { 4.MD. } 4 \end{aligned}$ | E | Extending Fraction Equivalence to Fractions Greater than 1 <br> Lesson 22: Add a fraction less than 1 to, or subtract a fraction less than 1 from, a whole number using decomposition and visual models. <br> Lesson 23: Add and multiply unit fractions to build fractions greater than 1 using visual models. <br> Lessons 24: Decompose and compose fractions greater than 1 to express them in various forms. <br> Lessons 25: Decompose and compose fractions greater than 1 to express them in various forms. <br> Lesson 26: Compare fractions greater than 1 by reasoning using benchmark fractions. <br> Lesson 27: Compare fractions greater than 1 by creating common numerators or denominators. <br> Lesson 28: Solve word problems with line plots. | Days: 7 |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 4.NF.3c } \\ & \text { 4.NF.3d } \\ & \text { 4.MD. } 2 \end{aligned}$ | F | Addition and Subtraction of Fractions by Decomposition | Days: 5 <br> Lesson 29: Estimation is not assessed through the standard in this module |

## By the end of Topic F, your students should be able to:

- Choose from a variety of strategies to add and subtract mixed numbers


## Snapshot Assessment 4.NF.3a \& b Problems 3 and 4 <br> \section*{Examples:}

$\qquad$ 3. Emily, Kim, and McKenzie made a pan of
4. Kara and Olivia are making a strawberry

Pacing Guides । brownies. Emily ate $\frac{3}{12}$ and Kim and
Based on a woI McKenzie each ate $\frac{2}{12}$ of the pan of the
ions Attribution-NonC shortcake. They need $2 \frac{2}{8}$ pounds of inced.org and the CCS strawberries. Kara picked $1 \frac{3}{8}$ pounds of treats. Draw a visual model to show each

| 4.NF. 4 | G | Repeated Ad | tion of Fractions as Multiplication | Days: 6 |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 4.MD. } 4 \\ & \text { 4.OA. } 2 \end{aligned}$ |  | Lessons 35: | Represent the multiplication of $n$ times $a / b$ as $(n \times a) / b$ using the associative property and visual models. |  |
| 4.MD. 2 |  | Lessons 36: | Represent the multiplication of $n$ times $a / b$ as $(n \times a) / b$ using the associative property and visual models. |  |
|  |  | Lessons 37: | Find the product of a whole number and a mixed number using the distributive property. |  |
|  |  | Lessons 38: | Find the product of a whole number and a mixed number using the distributive property. |  |
|  |  | Lesson 39: | Solve multiplicative comparison word problems involving fractions. |  |
|  |  | Lesson 40: | Solve word problems involving the multiplication of a whole number and a fraction including those involving line plots. |  |

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By the end of Topic G, your students should be able to:

- Use the associative property to multiply a fraction by a whole number
- Use the distributive property to multiply a whole number by a mixed number
- Solve word problems involving multiplicative comparisons and multiplication of a whole number and a fraction


## SBAC Released Items 4.NF. 4 :

Example Stem: A bottle holds $\frac{3}{5}$ liter of water. Sam needs 8 bottles of water to fill his fish tank. How many liters of water does Sam need to fill the fish tank? Enter the number of liters.

Select all the numbers that make this inequality true.
$\frac{3}{0} \times 10<10$
A. 2
B. 3
C. 7
D. 9

| 4.OA.5 | H | Exploration <br> Lesson 41: | Find and use a pattern to calculate the sum of all fractional parts between 0 and <br> 1. Share and critique peer strategies. | Days: $\mathbf{O}$ <br> Lesson 41: This standard is <br> assessed in other modules. |
| :--- | :--- | :--- | :--- | :--- | :--- |

2 Days for Re-Assessment, Remediation and Enrichment

## Suggested Tasks:

- Sugar in Six Cans of Soda
- Button Diameters
- What's the Story (use pg. 25)

End of Module Assessment Word Document
End of Module Assessment Notes: For pacing needs, items 5 and 6 may be omitted.
Total Instructional Days: 41

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Links Used:
Chocolate Bar Fractions: http://schools.nyc.gov/NR/rdonlyres/0C0422CA-DBAF-4476-928F71102DB2F703/140801/NYCDOE G4 ChocolateBarFractions FINAL.pdf

Picking Fractions: http://www.insidemathematics.org/assets/common-core-math-tasks/picking\ fractions.pdf
Got Your Number, Level C: http://insidemathematics.org/problems-of-the-month/pom-gotyournumber.pdf
Sugar in Six Cans of Soda: https://www.illustrativemathematics.org/content-standards/4/NF/B/4/tasks/857
What's the Story: https://www.georgiastandards.org/Georgia-Standards/Frameworks/4th Math-Unit-7.pdf

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| Standards |  | Topic and Objectives | Instructional Notes |
| :---: | :---: | :---: | :---: |
| 4.NF.6 4.NBT. 1 4.MD. 1 | A | Exploration of Tenths <br> Lesson 1: Use metric measurement to model the decomposition of one whole into tenths. <br> Lesson 2: Use metric measurement and area models to represent tenths as fractions greater than 1 and decimal numbers. <br> Lesson 3: Represent mixed numbers with units of tens, ones, and tenths with number disks, on the number line, and in expanded form. | Days: 3 <br> Lesson 2 \& 3 Teacher P Copy teacher and stud |
| By the end of Topic $A$, your students should be able to: <br> - Use decimal notation to represent fractions with a denominator of 10 <br> Sample Assessment Item 4.NF. 6 <br> 3. Locate 0.8 on the number line. <br> (DOK 1)$\begin{gathered} 2 \frac{6}{10}=2+\frac{6}{10} \\ 2.6=2+0.6 \\ 2.6 \end{gathered}$4.NF.5 B Tenths and Hundredths <br> 4.NF.6 <br> 4.NBT.1 <br> 4.NF.1 <br> 4.NF.7 <br> 4.MD.1 <br> Use meters to model the decomposition of one whole into hundredths. Represent   <br> and count hundredths.   |  |  |  |
|  |  |  | Days: 4 <br> Optional Lesson 4: <br> Incorporates measurement conversion into tenths and hundredths <br> Lesson 5, 6 \& 8 Teacher Prep: Copy teacher and student materials prior to lessons |

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## By the end of Topic B, your students should be able to:

- Use decimal notation to represent fractions with denominators of 10 and 100
- Use a model to represent the equivalence between tenths and hundredths


## SBAC Released Item:

Example Stem: Determine if each equation is true or false, Select True or False for each equation

|  | True | False |
| :---: | :---: | :---: |
| $\frac{4}{10}=\frac{40}{100}$ |  |  |
| $\frac{5}{10}=\frac{50}{10}$ |  |  |
| $\frac{11}{10}=\frac{110}{100}$ |  |  |

## Sample Assessment:

1. Write the following as a decimal and a fraction: (DOK 1)


2 Days for Remediation, Enrichment, Mid-Module Assessment
Mid-Module Assessment Word Document

## Suggested Task:

Dismissal Duty Dilemma (pg. 49)

| $\begin{aligned} & \text { 4.NF. } 7 \\ & \text { 4.MD. } 1 \\ & \text { 4.MD. } 2 \end{aligned}$ | C | Decimal Comparison |  | Days: 2 |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Lesson 9: | Use the place value chart and metric measurement to compare decimals and answer-comparison questions. | Extension Lesson 9, use if time permits |
|  |  | Lesson 10: Lesson 11: | Use area models and the number line to compare decimal numbers, and record comparisons using $<,>$, and $=$. <br> Compare and order mixed numbers in various forms. | Lesson 10 \& 11 Teacher Prep: Copy teacher and student materials prior to lesson. |

By the end of Topic C, your students should be able to:

- Compare decimals to the hundredths place by reasoning about their size when relating to the same whole


## Snapshot Assessment 4.NF. 7 :

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2. Use $<,=,>$ to make the number sentence
below correct. (DOK 1)
4.564.57
3.23.09
0.9
4. Hector's teacher was meeting with him to discuss his mistake on a recent decimals test.
(DOK 3)


Hector answered, "There is one piece shaded in each grid, so they must be equal."

Imagine you are Hector's teacher. Using decimals, how would you help correct his thinking?

## 4.NF. 5

4.NF. 6
4.NF.3c
4.MD. 1

By the end of Topic D, your students should be able to:

- Convert fractions with denominators of 10 or 100 to equivalent fractions as necessary to add tenths and hundredths


## SBAC Released Item:

Example Stem: Determine if each equation is true or false. Select True or False for each equation.

|  | True | False |
| :--- | :--- | :--- |
| $\frac{5}{10}+\frac{18}{100}=\frac{68}{100}$ |  |  |
| $\frac{11}{10}+\frac{13}{100}=\frac{24}{100}$ |  |  |
| $\frac{10}{10}+\frac{45}{100}=\frac{145}{100}$ |  |  |

## (cc) $\overline{\mathrm{EY}} \mathrm{N} \mathrm{Nc}$

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| $\begin{aligned} & \text { 4.MD. } 2 \\ & \text { 4.NF. } 5 \\ & \text { 4.NF. } 6 \end{aligned}$ | E | Money Ar <br> Lesson 15 <br> Lesson 16 | s as Decimal Numbers <br> Express money amounts given in various forms as decimal numbers. Solve word problems involving money. | Days: 0 <br> Lessons 15 \& 16: These lessons are review and connect money to place value. Pieces of these lessons could be used at the beginning of the module to connect place value conversions to something the students already know. Money is revisited in Module 7. |
| :---: | :---: | :---: | :---: | :---: |
| 2 Days for Re-Assessment, Remediation and Enrichment |  |  |  |  |
| Sample Task: |  |  |  |  |
| Ticket Task: click on Quarter 3, Performance Task 1 |  |  |  |  |
| End of Module Assessment Word Document |  |  |  |  |
| Notes: Correct the error on \#1. The fraction should say $\frac{8}{10}$. |  |  |  |  |
| Because lessons on measurement and money were optional, \#4 and parts of \#6 may be omitted. |  |  |  |  |

Total Instructional Days: 15
Links Used:
Module Assessments: https://www.engageny.org/resource/grade-4-mathematics-module-6
Dismissal Duty Dilemma: https://www.georgiastandards.org/Georgia-Standards/Frameworks/4th-Math-Unit-5.pdf
Ticket Task: https://grade4commoncoremath.wikispaces.hcpss.org/Assessing+4.NF. 6

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| Standards | Topic and Objectives |  | Instructional Notes |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 4.OA. } 1 \\ & \text { 4.OA. } 2 \\ & \text { 4.MD. } 1 \\ & \text { 4.NBT. } 5 \\ & \text { 4.MD. } 2 \end{aligned}$ | A | Measurement Conversion Tables <br> Lessons 1: Create conversion tables for length, weight, and capacity units using measurement tools, and use the tables to solve problems. <br> Lesson 2: Create conversion tables for length, weight, and capacity units using measurement tools, and use the tables to solve problems. <br> Lesson 3: Create conversion tables for units of time, and use the tables to solve problems. <br> Lesson 4-5: Solve multiplicative comparison word problems using measurement conversion tables and share/critique peer strategies. <br> Combine Lesson 4 \& 5 <br> 1 Day Math Task: How Many Movies Can You See in One Day? | Days: 5 <br> Lesson 1 sprint is prep for money which they will be using in a later lesson in this unit. <br> Lesson 2 has core fluency practice sets that review skills learned throughout the year. Consider doing Lesson 1 and 2 as stations with materials to allow time to explore unit conversions. Lesson 3 needs a timer or an online stopwatch. <br> Lesson 4 and 5: Choose one concept development. Use Lesson 4 problem set with Lesson 5 Peer Share and Critique Form. |
| By the end of Topic A, your students should be able to: <br> - Use multiplication to do measurement conversions within a single system. <br> - Know the relative size of units within a measurement system. <br> - Make and use conversion tables to compare sizes. <br> - Share their problem solving strategies and critique peer strategies |  |  |  |
| 4.OA. 2 <br> 4.OA. 3 <br> 4.MD. 1 <br> 4.MD. 2 | B | Problem Solving with Measurement <br> Lesson 6: Solve problems involving mixed units of capacity. <br> Lesson 7: Solve problems involving mixed units of length. | Days: 5 |

[^3]\begin{tabular}{|c|c|c|c|}
\hline $$
\begin{aligned}
& \text { 4.NBT. } 5 \\
& \text { 4.NBT. } 6
\end{aligned}
$$ \& \& Lesson 8: $\quad$ Solve problems involving mixed units of weight.
Lesson 9: $\quad$ Solve problem involving mixed units of time.
Lessons 10-1 $1:$ Solve multi-step measurement word problems.

Combine $10 \& 11$ \& Combine Lesson 10 and 11 and consider using the carousel model. <br>

\hline \multicolumn{4}{|l|}{| By the end of Topic B, your students should be able to: |
| :--- |
| - Add and subtract mixed units of capacity, length, weight, and time. |
| - Solve multistep word problems involving measurement and conversions. |
| Snapshot Assessment 4.MD.2- Use Questions 1 and 2 |} <br>

\hline \[
$$
\begin{aligned}
& \hline \text { 4.OA. } 3 \\
& \text { 4.MD. } 1 \\
& \text { 4.MD. } 2 \\
& \text { 4.NBT. } 5 \\
& \text { 4.NBT. } 6
\end{aligned}
$$

\] \& C \& Investigation of Measurements Expressed as Mixed Numbers \& | Days: 0 |
| :--- |
| Extension Lessons 12-14. Conversion of mixed number measurements is not necessary to meet the standard in $4^{\text {th }}$ grade. | <br>


\hline | Mid-Mod |
| :--- |
| Suggested |
| - Do |
| - Th | \& Ass \& | 3 Days for Re-Assessment, Remediation and Enrichment- End of Module Assessm ssment Word Document |
| :--- |
| where students need to find out how much sugar is in a case of Mountain Dew where students first estimate and then find out the weight of an apple. | \& <br>

\hline
\end{tabular}

| D | Year in Review <br> Lessons 15-16: <br> Lesson 17: <br> Lesson 18: <br> Leste and determine the area of composite figures. <br> Practice and solidify Grade 4 fluency. | Days: $\mathbf{O}$ | Include as review as needed. <br> Students make a folder of <br> math practice for summer <br> break. |
| :--- | :--- | :--- | :--- | :--- |
|  | Total Instructional Days: 13 |  |  |

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Links Used:
Module Assessments: https://www.engageny.org/resource/grade-4-mathematics-module-6
"How Many Movies Can You See in One Day?" Task: http://robertkaplinsky.com/work/movies/
"Do the Dew" Task: http://gfletchy.com/do-the-dew/
"The Apple" Task: http://gfletchy.com/the-apple/


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