** Interim Test (CASSPP) will replace District Growth Math Assessment. It will be taken 2xa year (EOT1 \& EOT2)

| Time | Unit | Big Ideas | Standards | Resources | Assessments | Routines and Activities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \hline 3 \\ & \text { weeks } \end{aligned}$ | 1: <br> Place Value of Whole <br> Numbers and Decimals | - In this unit students expand their previous understanding of place value to include decimal numbers. Powers of 10 is a fundamental aspect of the base ten system. <br> - Students need to know that a digit in one place represents 10 times as much as it represents in the place to the right and $1 / 10$ of what it represents to its left. <br> - Read, write and compare decimals to the thousandths. | $\begin{aligned} & \hline \text { 5.NBT. } 1 \\ & \text { 5.NBT. } 2 \\ & \text { 5.NBT.3a } \\ & \text { 5.NBT.3b } \\ & \text { 5.NBT.4 } \end{aligned}$ | Expressions <br> Unit 2 <br> Lessons 1, 2 introduces place value, but spirals throughout the series (See index) <br> EngageNY - Module 1 <br> Use Topic A Lesson 1,2,3 Topic B Lesson 5, 6, Comparing Decimals Lessons in EngageNY (Topic <br> C) a re not student friendly <br> Georgia-Unit 2 (Units have constructing tasks, practice tasks and performance tasks) <br> Tasks: High Roller Revisited, <br> Rea sonable Rounding, <br> Making "Cents" of Decimals, and In the Pa per (both of these tasks relate decimals to fractions) <br> Georgia - Unit 3 has tasks that reference exponents byrelating it to mult/div <br> Old River Packet (Google Drive) <br> Additional Resources <br> Cooperative Math (Kagan) <br> * Number Talks Helping Children Build Mental Math and Computation Strategies by Sherry Parrish <br> Illustrative Mathematics <br> Tasks: Kipton's Scale <br> Tenths and Hundredths | - Unit 1 <br> Assessment and Constructed ResponseDistrict Created <br> - Teacher needs to create formative assessments as needed to guide instruction. <br> - Unit 1 <br> Performance Tasks: <br> Decimals, Pg. 75 https://www.sco e.org/files/marsgrade5.pdf | *NumberTalks ReadChapters 1 and 2 to understand Number Talks Read Chapter 5 for Developing Specific Addition and Subtraction Strategies p.182-286 have number sets to use for yournumbertalks <br> Chapter9 (p. 324) What Does a Number Talk Look Like for 5th Gra de (Use the Number Talks book throughout the entire year for routine ideas or routines from the district.) <br> One of These Things Routine (District Website) <br> Choral Counting Routine (District Website) <br> Mental Math Ideas (District Website) <br> MARS Performa nce Task Activity: Decimals <br> More Activities <br> -Illustrative Mathematics |

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| Time | Unit | Bigldeas | Standards | Resources | Assessments | Routines and Activities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $7$ <br> weeks | 2: <br> Metric System <br> and <br> Customary <br> Conversions | Convert a mong differentsized standard mea surement units within a given measurement system (e.g., convert 5 cm to 0.05 m ), and use these conversions in solving multi-step, real-world problems. | 5.MD. 1 | Expressions <br> Unit 2 -Lesson 4 <br> Unit 8 -Lessons 1, 2, 3, 4, 5, 6, 7 <br> *Story of King Henry (on the internet) can be used as mnemonic for teaching metric system. <br> Forproblems/homework: <br> - Website: MrMaffesoli.com | - Unit 2 <br> Assessment and Constructed ResponseDistrict Created <br> - Teacher needs to create formative assessments as needed to guide instruction <br> - Unit 2 <br> Performance Task: <br> https://www.scoe.o <br> rg/files/mars- <br> grade5.pdf <br> pg. 75 - Fruits and Vegetables | *NumberTalks (Use the Number Talks book throughout the entire year for routine ideas or routines from the district.) <br> MARS Performance Task Activity: Fruits and Vegetables (Customary Unit Conversions) <br> More Activities <br> -lllustrative Ma thematics |

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| Time | Unit | Big Ideas | Standards | Resources | Assessments | Routines and Activities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 weeks | 3: <br> Addition and <br> Subtraction of Decimals | - Students can use their understanding of decimal-fraction equivalendes, concrete orvisual models and place value to reason about decimal quantities and operations. | 5.NBT. 1 <br> 5.NBT. 7 <br> 5.MD. 2 | Expressions <br> Unit 2 - Lessons 1, 2, 3, 4, 5, 6, 8, 10 (Real World <br> Problem Solving Questions) <br> ExtendingChildren's Mathematics: Fractions and Decimals by Susan B. Empson and Linda Levi Chapters 7 <br> Lessons do not have concrete models or drawings, needs to be ta ught. <br> Line Plots also need to be integrated. <br> EngageNY-Module 1 <br> Topic D has sample problems but lessons aren't kid friendly. <br> Georgia - Unit 2 (Units have constructing tasks, practice tasks and performance tasks) <br> Tasks: Hit the Target, Ten is the Winner, It All Adds Up, Rolling Around with Decimals, The Right Cut <br> Old River Packet (Google Drive) <br> Additional Resources <br> Cooperative Math (Kagan) <br> *Extending Children's Mathematics Fractions and Decimals by Sus an B.Empson a nd Linda Levi <br> *Illustrative Mathematics <br> Task: The Value of Education <br> Forproblems/homework: <br> - Website: MrMaffesoli.com | - Unit 3 <br> Assessment and Constructed ResponseDistrict Created <br> - Teacher needs to create formative assessments as needed to guide instruction. <br> - Unit 3 <br> Performance Tasks: Value of Education | *Number Talks <br> (Use the Number Talks book throughout the entire year for routine ideas or routines from the district.) <br> Choral Counting Routine (District Website) <br> * Choral Counting: Decimals <br> *ExtendingChildren's Mathematics: Fractions and Decimalsp. 3-35 Sa mple Problems on pages 29-31 Introduce Fair Share Problems to develop/review fraction understanding, start with problems like 6 children want to share 13 cookies (review of 3 rd/4th grade ideas) <br> Mental Math Idea (District Website) <br> Problem of the Month Activities <br> - Diminishing Return <br> - DiggingDinosaurs <br> More Activities <br> - Illustrative Mathematics |

2016-2017 Downey Unified School District 5th Grade Math Curriculum Map
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| Time | Unit | Big Ideas | Standards | Resources | Assessments | Routines and Activities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 weeks | 4: <br> Division and Multiplication of Fractions | - In this unit, students extend their understanding of multiplying a fraction by a whole number to multiplying fractions by fractions. In previous grades, students have developed understanding of fractions as numbers. In this grade level, students develop an understanding of the connection between fractions and division. They will use this understanding to explore the relationship of multiplication and division when multiplying fractions as explainedin5.NF.4a | 5.NF. 3 <br> 5.NF. 4 <br> 5.NF. 5 <br> 5.NF. 6 <br> 5.NF. 7 <br> 5.OA. 2 <br> 5.MD. 1 <br> 5.MD. 2 | Expressions <br> Unit 3 -Lessons 1, 2, 3, 4, 6, 7, 8, 10 <br> Extending Children's Ma thematics: Fractions and <br> Decimals by Susan B. Empson and Linda Levi - <br> Chapters 1-3 <br> EngageNY - Module 4 <br> Topic F Scaling of mult/div of fractions/decimals <br> Additional clusters addressed: <br> TopicA Line Plots <br> TopicH Interpretation of numerical expressions <br> Georgia-Unit 4 (Units have constructing tasks, practice tasks and performance tasks) <br> Tasks: Comparing MP3s <br> Measuring for a Pillow <br> Where are the cookies? <br> Dividing with Unit Fractions <br> Adjusting a Recipe <br> Santa Ana - Multiplication and Division of Fractions Unit <br> Old River Pa cket (Google Drive) <br> Additional Resources <br> Cooperative Math (Kagan) <br> *Illustrative Mathematics <br> Task:There are several options to choose from by standard <br> Painting a Wall (multiplying fractions) <br> Running a Mile (scaling) <br> Project Ba sed Learning: <br> How Tall is Mini Me (Scale and Dividing Decimals) | - Unit 4 <br> Assessment and Constructed <br> Response- <br> District Created <br> - Tea cher needs to create formative assessments as needed to guide instruction. <br> - Unit 4 Performance Tasks: None <br> - Community Garden (SBAC released test questions) | *Number Talks <br> (Use the Number Talks book throughout the entire year for routine ideas or routines from the district.) <br> Minilessons for Operations with Fractions, Decimals, and Percents - Part 2 pgs.59-84 <br> Choral Counting Routine (District Website) <br> Mental Math Idea (District Website) <br> Fraction Number Talk Ideas (District Website) <br> Performance Task Ideas <br> - Time for Recess <br> More Activities <br> - Ill ustrative Mathematics |

** Interim Test (CASSPP) will replace District Growth Math Assessment. It will be taken 2xa year (EOT1 \& EOT2)

| Time | Unit | Big Ideas | Standards | Resources | Assessments | Routines and Activities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \hline 5 \\ & \text { weeks } \end{aligned}$ | 5: <br> Addition and <br> Subtraction of Fractions | - In this unit students willuse what they have learned about equivalency to extend understanding of adding a nd subtracting fractions, induding mixed numbers. Students should be encouraged to use conceptual understanding of fractions rather than just the algorithm. No mathematical reason forstudents to write fractions in simplest form. | $\begin{aligned} & \hline \text { 5.NF. } 1 \\ & \text { 5.NF. } 2 \\ & \text { 5.NF. } 3 \\ & \text { 5.OA.1 } \\ & \text { 5.MD. } 2 \end{aligned}$ | Expressions <br> Unit 1-all <br> EngageNY - Module 3 <br> Topic B: Lessons 3, 4, 5, 8, 9, \& 11 <br> Georgia - Unit 4 <br> Tasks: Arrays, Number Puzzles and <br> Fa ctor Trees (Factors and <br> Multiples), Sharing Candy <br> Bars, Wishing Club (references <br> the bookThe Wishing Club but <br> it is not needed) <br> Addition and Subtraction, Flip <br> it Over, Up and Down the <br> Number Line, Create Three <br> Old River Packet (Google Drive) <br> Additional Resources <br> Cooperative Math (Kagan) <br> Minilessons for Operations with Fractions, <br> Decimals, and Percents by Ka ra LImm, Ca therine <br> T. Fos not, Willem Uittenbogaard <br> Extending Children's Ma thematics: Fractions and Decimals <br> Sus an B. Empson, Linda Levi <br> -To build equivalence understanding when adding/subtracting decimals refer to Chapter 6 and sample problems can be found on p. 139-142 and p. 144-147 <br> -Additional Addition a nd Subtraction Problems p. 209-211 <br> (P. 218-219 provide instructional guidelines for an introduction to fraction computation) <br> * Illustrative Ma thematics <br> Tasks: Making S'mores <br> Salad Dressing <br> (There are several options to choose from here.) <br> For problems/homework: <br> - Website: MrMaffesoli.com | - Unit 5 <br> Assessment <br> and <br> Constructed <br> Response- <br> District Created <br> - Teacher needs to create formative assessments as needed to guide instruction. <br> - Unit5 Performance Tasks: None <br> - https://www.sc oe.org/files/ma rs-grade5.pdf pg. 60 - Fractions | *Number Talks <br> (Use the Number Talks book throughout the entire year for routine ideas or routines from the district.) <br> Minilessons for Operations with Fractions, Decimals, and Percents - Part 1 pgs. 13-57 <br> ExtendingChildren's Mathematics: Fractions and Decimals -Continue with Fair Share Problems and rela te it to a dding of fractions <br> Fraction Number Talk Ideas (District Website) <br> One of These Things (District Website) <br> Choral Counting Routine (District Website) <br> MARS Performance Task Activities: <br> - Fractions <br> - Cindy's Cats <br> Performance Task Ideas <br> - Stuffed with Pizza <br> Problem of the Month Activity <br> - Got Your Number (Adding \& Subtracting Fractions) <br> - Fractured Numbers <br> More Activities <br> - Illustrative Mathematics |

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| Time | Unit | Big Ideas | Standards | Resources | Assessments | Routines and Activities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \hline 3 \\ & \text { weeks } \end{aligned}$ | 6: <br> Multi plication and Division of Whole Numbers and Interpreting Numerical Expressions | In this unit <br> students build on their work from previous grade levels to refine their strategies for multiplication and division in order to reach fluency in multiplication by the end of the year. Previously, Students have a pplied patterns of the base ten system to mental strategies and studied sequential lessons of multiplication via a rea diagrams and the distributive property leading to fluency with the standard algorithm. Students begin to find quotients with two-digit divisors early in the year to build strategies for a ccurate computation. Using standard algorithm for division is a grade 6 standard. <br> - Students will write and interpret the numerical expressions as a wayto record their calculations. | $\begin{aligned} & \text { 5.NBT.1 } \\ & \text { 5.NBT.2 } \\ & \text { 5.NBT. } 5 \\ & \text { 5.NBT. } 6 \\ & \text { 5.OA. } \\ & \text { 5.OA. } 2 \\ & \text { 5.OA. } 3 \end{aligned}$ | Expression ${ }^{* *}$ DO NOT te ach multiplication and division algorithm, but use problems a pplying partial quotient/products \& expanded notation. <br> Unit 7 <br> Lessons 1, 2, 4 (Expressions) <br> Multiplication-Unit 4 -Lessons 1, 2, 3, 4, 5 use Real World Problems <br> Division - Unit 5 -Lessons 1, 2, 4, 5 <br> EngageNY-Module 2 <br> Topic B Lesson 3 a ddresses writing and interpreting numerical expressions Topic Cdoes not apply <br> EngageNY - Module 2 (Expressions) <br> Topic B Lesson 3 addresses writing and interpreting numerical expressions <br> Topic Cdoes not apply <br> Georgia-Unit 1 (Units have constructing tasks, practice tasks a nd performance tasks) <br> Tasks: Multiplication Three in a Row <br> Preparing a Prescription, <br> Division a nd Interpreting <br> Remainders, The Grass is <br> Al ways Greener, Division <br> Four in a Row, Start of the <br> YearCelebration <br> Additional Tasks can be used <br> with a dditional cl uster 5.OA.1 <br> Additional Resources <br> Cooperative Math (Kagan) <br> *Illustrative Mathematics <br> Task:The Value of Education <br> Forproblems/homework: <br> - Website: MrMaffesoli.com | - Unit 6 <br> Assessment and Constructed ResponseDistrict Created <br> - Teacher needs to create formative assessments as needed to guide instruction. <br> - Unit 6 Performance Tasks: Elmer's Multiplication Error <br> - https://www.sc oe.org/files/ma rs-grade5.pdf pg.23-Hexagons in a Row | *NumberTalks (Use the Number Talks book throughout the entire year for routine ideas or routines from the district.) <br> NumberTalks (Ch 7-8) pgs. 231-299 <br> Mental Math Idea (District Website) <br> Choral Counting Routine (District Website) <br> A Sample of CGI Word Problems (District Website) <br> Problem of the Month Activity Squirreling It Away <br> More Activities <br> - Ill ustrative Mathematics |

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| Time | Unit | Big Ideas | Standards | Resources | Assessments | Routines and Activities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \hline 5 \\ & \text { weeks } \end{aligned}$ | 7: <br> Multiplication and Division of Decimals | - Measurement is used in this unit as a context for operations with decimals. <br> - Students can use their understanding of decimal-fraction equivalencies, concrete orvisual models, and place value to reason about decimal quantities and operations. Students express measurements in larger orsmaller units within a mea surement system. This is an excellent opportunity to reinforce notions of place value for whole numbers and decimals, and connection between fractions and decimals (e.g., $21 / 2$ meters canbe expressed as 2.5 meters or 250 centimeters). | 5.NBT. 1 5.NBT. 2 5.NBT. 7 5.MD. 1 | Expressions <br> Multi plication - Unit 4 - Lessons 1, 6, 7, 8, 9, 10, 11, 12 <br> Division- Unit 5 - Lessons 6, 7, 8, 9, 10, 11 (if using these lessons, choose the problems with friendly numbers) <br> *Do not teach the division algorithm <br> EngageNY - Module 1 and 4 <br> TopicE andF <br> Georgia-Unit 3 (Units have constructing tasks, practice tasks and performance tasks) <br> All the tasks apply (the first 3 tasks reinforce the powers of ten concept developed in Unit 1) <br> Additional Resources <br> Old River Packet <br> Cooperative Math (Kagan) <br> *Illustrative Mathematics <br> *Extending Children's Mathematics: Fractions and Decimals <br> Chpt. 7 p. 148-177 <br> Sa mple Problems: p. 171-173 <br> Guideline for teaching concepts: <br> p. 176-177 | - Unit 7 <br> Assessment District Created (There is no constructed response question on this assessment.) <br> - Teacher needs to create formative assessments as needed to guide instruction. <br> - Unit 7 <br> Performance <br> Tasks: Unit 7:PT (Cars) <br> - http://fcit.usf.ed u/math/resource /perftsk2/multde c.html <br> Multiplying and Dividing Decimals | *NumberTalks <br> (Use the Number Talks book throughout the entire year for routine ideas or routines from the district.) <br> Minilessons for Operations with Fractions, Decimals, a nd Percents pgs. 82-85 <br> Choral Counting Routine (District website) <br> Mental Math Idea (District website) <br> More Activities <br> - Illustrative Mathematics |

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| Time | Unit | Big Ideas | Standards | Resources | Assessments | Routines and Activities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 weeks | 8: <br> Volume | - In this unit, students developthis understanding using concrete modelsto discover strategies for finding volume. Students will generalize this understanding in realworld problems and apply strategies and formulas. | $\begin{aligned} & \text { 5.MD. } 1 \\ & \text { 5.MD. } 2 \\ & \text { 5.MD. } 3 \\ & \text { 5.MD. } 4 \\ & \text { 5.MD. } 5 \\ & \text { 5.NBT.5 } \\ & \text { 5.NBT. } 6 \\ & \text { 5.NBT. } 7 \end{aligned}$ | EngageNY - Module 5 <br> Unit8 <br> - Topic B Lesson 6-volume of nonoverla pping rectangular prisms <br> - All topics apply except Topic C (Area) <br> Expressions <br> Unit 8 Lessons 9-13 <br> Georgia - Unit 7 (Units have constructing tasks, practice tasks a nd performance tasks) <br> - All Tasks except a Survival Badge and A Little Mo Running <br> Santa Ana - Volume Unit <br> Additional Resources <br> Cooperative Math (Kagan) <br> *lllustrative Mathematics <br> - Tasks: Box of Clay <br> Cari's Aquarium | - Unit 8 <br> Assessment and Constructed ResponseDistrict Created <br> - Teacher needs to create formative assessments as needed to guide instruction. <br> - Unit 8 Performance Tasks: How Many Cubes? <br> - https://www.sco e.org/files/marsgrade5.pdf pg.16-How Many Cubes? | *Number Talks <br> (Use the Number Talks book throughout the entire year for routine ideas or routines from the district.) <br> MARS Performance Task Activity: <br> - How ManyCubes? <br> More Activities <br> - Illustrative Mathematics |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 weeks | 9: <br> Graphing on the Coordinate Plane | - In this unit, students a re introduced to the coordinate plane, a pplying their knowledge of the numberline to understand the relationship of the two dimensions of point in the coordinate plane. Students connect their work with numerical patterns to form ordered pairs and graph these ordered pairs in the first quadrant of a coordinate plane. Students use this model to make sense of and explain the relationships within the numerical pattems theygenerate. This preparesstudents for future work with functions and proportional relationships in the middle grades. | $\begin{aligned} & \text { 5.G. } 1 \\ & \text { 5.G. } 2 \\ & \text { 5.MD. } 2 \end{aligned}$ | Expressions <br> Unit 7 <br> Lessons 5, 6, 7 (Intro. Coordinate Plane) <br> EngageNY - Module 6 <br> Georgia - Unit 5 <br> Additional Resources <br> Cooperative Math (Kagan) <br> *Illustrative Mathematics <br> - Tasks: Battle Ship Using Grid Paper Meerkat Coordinate Plane Task | - Unit 9 <br> Assessment- <br> District Created <br> (There is no constructed response question on this assessment.) <br> - Teacher needs to create formative assessments as needed to guide instruction. <br> - Unit 9 <br> Performance <br> Tasks: Science Fair Project <br> - https://www.sco e.org/files/marsgrade5.pdf pg.44-Granny's Balloon Trip | *Number Talks <br> (Use the Number Talks book throughout the entire year for routine ideas or routines from the district.) <br> MARS Performance Task Activities <br> - Hexagon's ina Row <br> - Granny's Balloon Trip <br> Problem of the Month Activities - <br> - Tri-Triangles <br> - GrowingStaircases <br> More Activities <br> - Illustrative Mathematics |

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| Time | Unit | Big Ideas | Standards | Resources | Assessment | Routines and Activities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 weeks | 10: <br> Two- <br> Dimensional <br> Shapes | - In this unit the emphasis is on the hierarchical relationship a mong 2 dimensional geometric figures. Students have had previous experience classifying shapes using defining attributes, and this unit extends this concept to set a foundation for understanding the propagation of properties. | $\begin{aligned} & \text { 5.G. } 3 \\ & \text { 5.G. } 4 \end{aligned}$ | Expressions <br> Unit 8 - Les sons 14, 15, 16 <br> EngageNY-Module 5 <br> - Only Topic D <br> Georgia-Unit 6 (Units have constructing tasks, practice tasks and performance tasks) <br> Additional Resources <br> Cooperative Math (Kagan) | - Unit 10 <br> Assessment and Constructed ResponseDistrict Created <br> - Teacher needs to create formative assessments as needed to guide instruction. <br> - Unit 10 Performance Tasks: Logics of Shapes <br> - https://www.sco e.org/files/marsgrade6.pdf pg. 25 - Sorting Shapes | *Number Talks <br> (Use the Number Talks book throughout the entire year for routine ideas or routines from the district.) <br> MARS Performa nce Task Activity: Sorting Shapes <br> More Activities <br> - Illustrative Mathematics |

