

2017-18 Downey Unified School District 3rd Grade Math Curriculum Map

Unit	Big Ideas	Standards	Resources	Assessments	Routines and Activities
<p>1: Multiplication and Division</p> <p>(12 weeks)</p>	<p>Multiplication</p> <ul style="list-style-type: none"> How can multiplication be represented? Refer to Problem Solving Trajectory for Multiplication. Unknown Product: Refer to the Common Multiplication and Division Situations. How does an array represent multiplication? Refer to Minilessons for Early Multiplication and Division How can multiplication strategies be used to solve problems? Refer to Problem Solving Trajectory for Multiplication. How can the properties of multiplication be used to solve problems? <p>Data and Graphing</p> <ul style="list-style-type: none"> How can data be represented and interpreted? <p>Division Concepts</p> <ul style="list-style-type: none"> How can we model division? Start, Result, and Change Unknown; and Partitive and Measurement Division: Refer to the Common Multiplication and Division Situations How can we write a math sentence to represent a division model? How can an array represent multiplication and division? <p>Data and Graphing</p> <p>How can data be represented and interpreted?</p>	<p>Multiplication</p> <ul style="list-style-type: none"> 3.OA.1 3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.OA.7 3.OA.8 3.OA.9 3.NBT.3 3.MD.3 <p>Division</p> <ul style="list-style-type: none"> 3.OA.1 3.OA.2 3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.OA.7 3.OA.8 3.OA.9 3.NBT.3 3.MD.3 	<p>Georgia</p> <ul style="list-style-type: none"> Unit 2 Georgia chart on start, change, and result unknown. <p>EngageNY</p> <ul style="list-style-type: none"> Module 1 Topics B Module 1 Topic D Lesson 13 Module 1 Topic E Module 3 <p>Expressions</p> <ul style="list-style-type: none"> Unit 1 <ul style="list-style-type: none"> Lesson 1, 2, 3 (Beginning with Lesson 3, skip Activity 1, begin with Activity 2 for the remainder of Unit 1) Lesson 4, 5, 6, 7, 8 Skip Lesson 9, 11, Lesson 10, 12, 13, 14, 15, 16, 17, 18, 19 (Practice Performance Task) See each lesson for Student Activity Lesson pages Unit 2 <ul style="list-style-type: none"> Lesson 1 Skip Lessons 2, 8, 14 Lessons 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 15 (Practice Performance Task) <p>Additional Resources Multiplication</p> <ul style="list-style-type: none"> www.learnzillion.com www.teachingchannel.org <p>Additional Resources Division</p> <ul style="list-style-type: none"> EngageNY <ul style="list-style-type: none"> Module 1 Topics B Module 1 Topic D Lesson 13 Module 1 Topic E <p>Look in Google 3rd Grade Math Shared Resource Folder</p>	<p>End of Unit 1 Assessment</p> <p>Performance Task: Cookie Dough</p> <p>Multiplication Administer Quizzes:</p> <ul style="list-style-type: none"> Multiplication Properties Quiz Multiplication Strategies Quiz Array Quiz Graphing Quiz Start, Result, and Change Unknown Multiplication Test Multiply Multiples of 10 <p>Expressions</p> <ul style="list-style-type: none"> Unit 1 : Performance Task Assessment p. 24 Unit 2 : Performance Task Assessment p. 37-38 <p>Division Administer Quizzes:</p> <ul style="list-style-type: none"> Interpreting a Model to Divide Quiz Modeling Division Quiz Using Arrays in Division Quiz Graphing Quiz <p>Optional Performance Task:</p> <ul style="list-style-type: none"> Isabella’s Garden 	<p>Multiplication: Minilessons for Early Multiplication and Division by Willem Uittenbogaard and Catherine Twomey Fosnot</p> <p>Number Lines pg. 19 Arrays pg. 42 Relating Multiplication and Division pg. 59</p> <ul style="list-style-type: none"> MARS Task-House Numbers MARS Task-Pens and Pencils MARS Task-The Math Test <p>Number Talks by Sherry Parrish</p> <p>Division:</p> <ul style="list-style-type: none"> MARS Task-The Pet Shop MARS Task-Houses in a Row Number Talks By Sherry Parrish <p>Technology Integration:</p> <ul style="list-style-type: none"> Illuminate Online Assessment How to Guide Seesaw and Google Classroom are workflow app, for turning in student work. Google Forms - teacher created gradable assessments <p style="text-align: center;">Suggested Apps</p> <ul style="list-style-type: none"> SeeSaw, Draw and Tell, Explain Everything (drawing, note and recording tool) Number Pieces and Number Pieces Basic (rods and flats to model multiples of 10) Number Frames (Build arrays and label with facts using counters and stamps) Popplet (Thinking Map/Graphic Organizer) Counting Board, Hands on Hundreds Chart (visualizing patterns for multiples 3.OA.9) GeoBoard (Build and decompose array, along with writing equations to match) NumberLine (Skip counting to model facts) Thinking Blocks Multiplication (Independently students label and solve word problems)

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<p>2: Place Value</p> <p>(5 weeks)</p>	<p>Place Value and Rounding</p> <ul style="list-style-type: none"> How does place value connect with rounding? Refer to <u>Ways to Round</u>. <p>Addition and Subtraction</p> <ul style="list-style-type: none"> How can decomposing numbers help with addition and subtraction of two-digit and three-digit numbers? <p>Data and Graphing</p> <ul style="list-style-type: none"> How can data be represented and interpreted? 	<ul style="list-style-type: none"> 3.NBT.1 3.NBT.2 3.OA.8 3.OA.9 3.MD.3 	<p><u>Georgia Unit 1</u></p> <p><u>EngageNY Module 2 (Rounding) Topic C</u> <u>Module 2 (Addition and Subtraction) Topics D and E</u> <u>Module 6 (Data and Graphing) Topics A and B</u></p> <p><u>Expressions</u></p> <p>Unit 4 Lessons 1-6: Resource for Place Value and Rounding Lessons 7-16 & 18: Resource for problems and problem solving questions. Lesson 17: Resource for Multistep problems. Don't teach standard algorithm.</p> <p>Unit 5 Lessons 1-11: Use problems from these lessons for examples of different problem solving types and strategies.</p> <p><u>Additional Resources</u> www.learnzillion.com www.teachingchannel.org</p> <p><u>Look in Google 3rd Grade Math Shared Resource Folder</u></p>	<ul style="list-style-type: none"> Administer Quizzes: <ul style="list-style-type: none"> Addition/Subtraction Date and Graphing Addition and Subtraction_Illuminate Rounding Quiz End of Unit 2 Assessment Unit 2 Performance Task: A Trip to the Toy Store 	<ul style="list-style-type: none"> Number Talks by Sherry Parrish MARS Task-A Question of Numbers MARS Task-Parking Cars MARS Task-The Answer is 36 MARS Task-The Flower Garden MARS Task-Number Cards <p style="text-align: center;">Suggested Apps</p> <ul style="list-style-type: none"> Hands on Hundreds Chart (Use to show closest tens and hundreds.) Number Pieces and Number Pieces Basic (rods and flats to model adding and subtracting two and three digit numbers)

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<p>3: Fractions (5/6 weeks)</p>	<p>Fractions</p> <ul style="list-style-type: none"> How are fractions used in problem solving (equal sharing and multiple group problems) ? What fractions are on a number line between 0 and 1? When we compare 2 fractions, which has the greater value? What is the relationship between unit fractions and a unit of 1? 	<ul style="list-style-type: none"> 3.NF.1 3.NF.2 3.NF.3 3.G.2 3.OA.8 3.OA.9 3.MD.3 3.MD.4 	<p>PRIMARY RESOURCE</p> <ul style="list-style-type: none"> Extending Children's Mathematics: Fractions and Decimals, by Susan Empson <ul style="list-style-type: none"> Chapter 1 - General information on equal sharing Chapter 1, page 25 - Chart on types of strategies used to solve equal sharing problems Pages 33-34 - Third grade instructional guidelines for equal sharing problems Chapter 3 - General information on multiple groups Page 70 - Third grade instructional guidelines for multiple group problems Chapter 4 - Relational Understanding of Fractions (Standards 3.NF.1, 3.NF.2) Chapter 6 - Understanding Fraction Equivalence and Order (see page 127 for example of equivalent fractions using equal sharing problems) Pages 139-143 - Problems for Fraction Equivalence and Order Page 145 - Third Grade instructional Guidelines for Fraction Order and Equivalence <p>ADDITIONAL RESOURCES</p> <p>Georgia</p> <ul style="list-style-type: none"> Unit 5 <p>EngageNY</p> <p>Module 5</p> <p>Expressions (Not Recommended)</p> <p>Chapter 7 lessons that can be used</p> <ul style="list-style-type: none"> Lesson 3 Fractions on a Number Line Lesson 4 Comparing Unit Fractions with Number Lines Lesson 7 Equivalent Fractions on the Number Line Lesson 8 Resource for Word Problems Use End of Unit Test Questions as ideas for Number Talks, Routines, & Word Problems 	<ul style="list-style-type: none"> Administer Quizzes: <ul style="list-style-type: none"> Equal Sharing Fraction Quiz Multiple Groups Fraction Quiz Fractions on a Number Line Quiz Comparing Fractions Quiz Fraction Relationship to a Whole Quiz Illuminate Online Quiz: Fractions/SBAC Practice End of Unit 3 Assessment Performance Task: School Garden 	<ul style="list-style-type: none"> Math Teaching Resources.com Games: Fractions with Color Tiles, Congruent Eighths, and Geoboard Fourths Number Talks by Sherry Parrish Number Talks: Fractions, Decimals and Percents by Sherry Parrish www.learnzillion.com www.teachingchannel.org <p style="text-align: center;">Suggested Apps</p> <p>GeoBoard (Build arrays using different colored bands and represent with fractions.)</p> <p>Pattern Shapes: (Build shapes with different colors. Name the fraction of the whole.)</p> <p>Number Line: (Use to count and label fractions also to show the equal spacing between fractions.)</p>

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<p>4: Area and Perimeter</p> <p>(3 weeks)</p>	<p>Geometry</p> <ul style="list-style-type: none"> ● How do attributes help describe shapes? <p>Perimeter and Area</p> <ul style="list-style-type: none"> ● How are area and perimeter of a shape related? ● What is area? ● What is perimeter? ● How does area relate to multiplication and addition? <p>Data and Graphing</p> <ul style="list-style-type: none"> ● How can data be represented and interpreted? 	<ul style="list-style-type: none"> ● 3.MD.5 ● 3.MD.6 ● 3.MD.7 ● 3.MD.8 ● 3.OA.1 ● 3.OA.7 ● 3.OA.8 ● 3.G.2 	<p>Georgia</p> <ul style="list-style-type: none"> ● Unit 3 ● Unit 4 <p>EngageNY</p> <ul style="list-style-type: none"> ● Module 4 ● Module 7 Topic C ● Module 7 Topic D ● Module 7 Topic E <p>Expressions</p> <ul style="list-style-type: none"> ● Unit 1 Lesson 11 ● Unit 2 Lessons 2 and 6 ● Unit 6 Lessons 1 (Skip pgs. 655-656), 2, 3, 4, 5, 6, 7, 8, 9, 10 (optional-using tangrams to figure out area) and 11 ● Review Assessment in Student Book ● Post Assessment (TE pg. 737) <p>Additional Resources</p> <ul style="list-style-type: none"> ● schools.nyc.gov (Chris' Garden Dilemma) ● www.learnzillion.com ● www.teachingchannel.org <p>Look in Google 3rd Grade Math Shared Resource Folder</p>	<ul style="list-style-type: none"> ● Administer Quizzes: <ul style="list-style-type: none"> ○ Attributes of a shapes quiz ○ Area and perimeter of shapes quiz ○ Addition and Multiplication of Area and Perimeter Quiz ● End of Unit 4 Assessment ● Performance Task: City Farmers 	<ul style="list-style-type: none"> ● Math Teaching Resources.com: 2D Shape Sort, Comparing Quadrilaterals ● Number Talks by Sherry Parrish ● MARS Task: Making A Doll House ● MARS Task: Garden Design ● MARS Task: Which Shape? <p style="text-align: center;">Suggested Apps</p> <p>Pattern Shapes: Build shapes and label with lengths then compute area and perimeter.</p> <p>Number Pieces and Number Pieces Basic Use rods and flats to make shapes and find area and perimeter.</p> <p>GeoBoard and Seesaw: Make shapes, take a screenshot, and annotate in SeeSaw.</p>

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<p>5: Measurement (3 weeks)</p>	<p>Measuring Lengths</p> <ul style="list-style-type: none"> How can I organize data to $\frac{1}{4}$ to $\frac{1}{2}$ inch? <p>Time</p> <ul style="list-style-type: none"> What strategies can I use to help me tell and write time to the nearest minute and measure intervals in minutes? What connections can I make between a clock and a number line? <p>Volume and Mass</p> <ul style="list-style-type: none"> How can I determine liquid volume and mass of objects? <p>Data and Graphing</p> <ul style="list-style-type: none"> How can data be represented and interpreted? 	<ul style="list-style-type: none"> 3.MD.1 3.MD.2 3.MD.4 3.G.1 	<p>Georgia</p> <ul style="list-style-type: none"> Unit 5 Unit 6 <p>EngageNY</p> <ul style="list-style-type: none"> Module 2 <p>Expressions</p> <ul style="list-style-type: none"> Unit 3 Lesson 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14 (Skip Lessons 2 and 15) Review Assessment in Student Book Post Assessment (TE pg. 407) <p>Additional Resources</p> <ul style="list-style-type: none"> www.learnzillion.com www.teachingchannel.org <p>Look in Google 3rd Grade Math Shared Resource Folder</p>	<ul style="list-style-type: none"> Administer Quizzes <ul style="list-style-type: none"> What Strategies Can I Use to Help Me Tell and Write Time Quiz? What Connections Can I Make Between a Clock and a Number Line Quiz How Can I Determine Liquid Volume and Mass of Objects Quiz End of Unit 5 Assessment Performance Task: Boxing the Pots 	<ul style="list-style-type: none"> North Carolina Formative Instructional Tasks: Norman's Number Line North Carolina Formative Instructional Tasks: Weighing Fruit North Carolina Formative Instructional Tasks: Edna's Busy Day MARS Tasks: Time to Get Clean Number Talks by Sherry Parrish <p style="text-align: center;">Suggest Websites</p> <p>Visnos- Clock</p>