



Saddlebrook Preparatory School

Curriculum Map- Scope and Sequence:
Grade 4 - Math

Purpose of Planning	Unit One Multiplication & Division Q1 W 1-2	Unit Two Multi-Digit Dividends Q1 W 3-4	Unit Three Distributive Properties Q1 W 5-6	Unit Four Factors, Multiples, Patterns Q1 W 7-9	Unit Five Factors Using Multiplication & Division Q2 W 1-3
Unit Topic and Overview:	<p>Essential Questions: 1: How can you read and write numbers through hundred thousandths? 2: How can you compare and order numbers? 3: How can you round numbers? Developing understanding and fluency with multi digit multiplication and division</p>	<p>Essential Questions: 1: How can you solve a multi-digit problem using division and multiplication? Developing understanding and fluency with multi digit multiplication and understanding of dividing to find quotients involving multi digit dividends</p>	<p>Essential Questions: 1: What are the properties of operations for solving multi-digit arithmetic? What is the distributive property? Use place value understanding and properties of operations to perform multi digit arithmetic Using the distributive property to find quotients.</p>	<p>Essential Questions: 1: How do we use multiples to estimate quotients? 2: How do we use models to divide whole numbers that do not divide evenly? Factors, Multiples, and Patterns -choosing a strategy to solve multiplication and division</p>	<p>Essential Questions: 1: How do Factors, Multiples, and Patterns form? 2: How can you solve problems using a strategy and making a list? Using arrays to name the factors of 12, choosing a strategy to solve multiplication and division</p>
Prerequisite Student Knowledge *What should students have previously mastered prior to this unit?	Students should have an understanding of place value and how to add and subtract multiple digit numbers	Students should have an understanding of place value and how to add and subtract, multiply and divide multiple digit numbers	Place value understanding and properties of operations to perform multi digit arithmetic	Students know that division is the opposite of multiplication. They know how to use models for solving problems.	Prime and composite numbers, Number Patterns, Factors and Multiples, Common Factors
Essential Knowledge & Student Expectations *What are the anticipated learning outcomes for students?	The students will understand place value, greater than, less than, equal to, how to correctly read numbers through the hundred thousandths.	The students will understand place value, and be able to multiply and divide multiple digit numbers.	The children will understand place value and performing math problems with multi digit numbers	The students will understand place value, understanding the properties of division.	Determine if a number is prime or composite, Find all the factors of numbers by using models, how to generate a number pattern.



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<p>Anchor Text and Supplemental Texts *Illustrate texts used, and how students' knowledge builds across units.</p>	<p>Go Math –Houghton, Mifflin, and Harcourt grade 4 Course 1</p> <p>Go Math –Houghton, Mifflin, and Harcourt grade 4 Course 2</p>	<p>Go Math –Houghton, Mifflin, and Harcourt grade 4 Course 1</p> <p>Go Math –Houghton, Mifflin, and Harcourt grade 4 Course 2</p>	<p>Go Math –Houghton, Mifflin, and Harcourt grade 4 Course 1</p> <p>Go Math –Houghton, Mifflin, and Harcourt grade 4 Course 2</p>	<p>Go Math –Houghton, Mifflin, and Harcourt grade 4 Course 1</p> <p>Go Math –Houghton, Mifflin, and Harcourt grade 4 Course 2</p>	<p>Go Math –Houghton, Mifflin, and Harcourt grade 4 Course 1</p> <p>Go Math –Houghton, Mifflin, and Harcourt grade 4 Course 2</p>
<p>Multi-Media Links: *Videos, presentations, any and all supplemental online material.</p>	<p>www.GoMath.com</p> <p>www.Kahnacademy</p> <p>http://www.educationworld.com//a_lesson/lesson063.shtml</p> <p>http://www.theteachersguide.com/mathsmartboardfiles.htm</p>	<p>www.GoMath.com</p> <p>www.Kahnacademy</p> <p>http://www.educationworld.com//a_lesson/lesson063.shtml</p> <p>http://www.theteachersguide.com/mathsmartboardfiles.htm</p>	<p>www.GoMath.com</p> <p>www.Kahnacademy</p> <p>http://www.educationworld.com//a_lesson/lesson063.shtml</p> <p>http://www.theteachersguide.com/mathsmartboardfiles.htm</p>	<p>www.GoMath.com</p> <p>www.Kahnacademy</p> <p>http://www.educationworld.com//a_lesson/lesson063.shtml</p> <p>http://www.theteachersguide.com/mathsmartboardfiles.htm</p>	<p>www.GoMath.com</p> <p>www.Kahnacademy</p> <p>http://www.educationworld.com//a_lesson/lesson063.shtml</p> <p>http://www.theteachersguide.com/mathsmartboardfiles.htm</p>



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<p>Instructional Practices: * Various Instructional Modalities, including Technology used</p>	<p>-Bell Work -Vocabulary Student Textbook Review tests Computer enhanced Interactive websites</p>	<p>-Bell Work -Vocabulary Student Textbook Review tests Computer enhanced Interactive websites</p>	<p>-Bell Work -Vocabulary Student Textbook Review tests Computer enhanced Interactive websites</p>	<p>-Bell Work -Vocabulary Student Textbook Review tests Computer enhanced Interactive websites</p>	<p>-Bell Work -Vocabulary Student Textbook Review tests Computer enhanced Interactive websites</p>
<p>Assessments: *Types and Measurements of Mastery</p>	<p>Essential Questions: 1: How can you read and write numbers through hundred thousandths? 2: How can you compare and order numbers? 3. How can you round numbers? 80 % of students will score 80% or higher</p> <p>Informal Assessments -Homework -Class Work - Interactive Notes -Bell work</p> <p>Formal Assessments - Chapter 1 Mid-term -Review Test -End of Chapter 1 Test</p>	<p>Essential Questions: 1: How can you use regrouping to multiply and divide? 2: How can you represent and solve multi step problems? 3: How can you use regrouping to multiply and divide multi digit numbers? 80 % of students will score 80% or higher</p> <p>Informal Assessments -Homework -Classwork - Interactive Notes -Bell work</p> <p>Formal Assessments - Chapter 2 mid-term Review Test End of Chapter 2 test</p> <p>- Chapter 2 Mid-term Review Test End of Chapter 2 Test</p>	<p>Essential Question: How can you use place value and partial products to multiply multi digit numbers? 2. What strategies can you use to estimate products? 3: How can you use regrouping to multiply multi digit numbers 80 % of students will score 80% or higher</p> <p>Informal Assessments -Homework -Classwork - Interactive Notes -Bell work</p> <p>Formal Assessments - Chapter 3 Mid-term Review Test End of Chapter 3 Test</p>	<p>Essential Questions: How can you use the Distributive Property to find quotients? 2. How can you use compatible numbers to estimate quotients? 3. How can you use remainders in division problems? 80 % of students will score 80% or higher</p> <p>Informal Assessments -Homework -Classwork - Interactive Notes -Bell work</p> <p>Formal Assessments - Chapter 4 Mid-term Review Test End of Chapter 4 Test</p>	<p>Essential Question : How can you understand and become fluent with multi-digit multiplication?</p> <p>Informal Assessments -Homework - Classwork - Interactive Notes -Bell work Enrich blackline masters</p> <p>Formal Assessments - Chapter 6 Mid-term Review Test End of Chapter 6 Test</p>



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<p>Interdisciplinary Lessons & Projects: *State additional content areas and title all lesson(s) and project(s)</p>	<p>Project- Food in Space - textbook Kahn Academy – place value and multiplication activities Interactive games on Go math</p>	<p>Project – None this unit Kahn Academy – place value and multiplication activities Interactive games on Go math</p>	<p>Project- Area models and partial products Kahn Academy – place value and multiplication activities Interactive games on Go math</p>	<p>Project- Area models and partial products Kahn Academy – place value and multiplication activities Interactive games on Go math</p>	<p>Project- Area models and partial products Kahn Academy – place value and multiplication activities Interactive games on Go math</p>
<p>Honors Course Differentiation(s):</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
<p>Integrated Common Core or NGSS Standards (List): *See Below for Links</p>	<p>CC.4.NBT.1 CC.4.NBT.2 CC.NBT.3 CC.NBT.4 CC.4.NBT.4</p>	<p>CC.4.OA.1 CC.4.OA.2 CC.4.OA.3 CC.4.NBT.5 CC.4.NBT.1 CC.4.NBT.3</p>	<p>CC.4.OA.1 CC.4.OA.2 CC.4.OA.3 CC.4.NBT.5 CC.4.NBT.1 CC.4.NBT.3</p>	<p>CC.4.OA.1 CC.4.OA.2 CC.4.OA.3 CC.4.NBT.5 CC.4.NBT.1 CC.4.NBT.3</p>	<p>CC.4.OA.1 CC.4.OA.2 CC.4.OA.3 CC.4.NBT.5 CC.4.NBT.1 CC.4.NBT.3</p>
<p>Integrated CCSS Writing Standards (List): *See Below for Links</p>	<p>CC.K12.MP.7 CC.K12.MP.7</p>	<p>CC.K12.MP.7 CC.K12.MP.7</p>	<p>CC.K12.MP.7 CC.K12.MP.7</p>	<p>CC.K12.MP.7 CC.K12.MP.7</p>	<p>CC.K12.MP.7 CC.K12.MP.7</p>



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Links to CCSS/NGSSS Curriculum Standards:	<p>The following links will be used to incorporate the CCSS and other applicable standards:</p> <ul style="list-style-type: none"> • The Common Core State Standard expectations in Grade 4. • The K-12 English LA and Content Area Writing Standards • The K-12 Reading Standards • The K-12 Mathematics Standards • The K-12 NGSSS Science & Social Studies Standards 				
Purpose of Planning	Unit Six Fractions & Decimals Q2 W 4-6	Unit Seven Add & Subtract Fractions Q2 W 7-9	Unit Eight Multiply Fractions by Whole Numbers Q3 W 1-5	Unit Nine Relate Fractions & Decimals Q3 W 6-9	Unit Ten Two Dimensional Figures Q4 W 1-9
Unit Topic and Overview:	<p>Essential Question(s):</p> <ul style="list-style-type: none"> -How can you use models to show equivalent fractions? -How can you use multiplication to find equivalent fractions -How can you write a fraction as an equivalent fraction in the simplest form? 	<p>Essential Question –</p> <ul style="list-style-type: none"> -When can you add or subtract parts of a whole? -How can you write a fraction as a sum of fractions with the same denominator? 	<p>Essential Question-</p> <ul style="list-style-type: none"> How can you write a fraction as a product of a whole number and a unit fraction? How can you write a product of a whole number and a fraction as a product of a whole number and a unit fraction? How can you multiply a fraction by a whole number to solve a problem? 	<p>Essential Question</p> <ul style="list-style-type: none"> How can you record tenths as fractions and decimals? How can you record tenths and hundredths as fractions and decimals? How can you relate fractions, decimals, and money? 	<p>Essential Question</p> <ul style="list-style-type: none"> -How can you identify and draw points, lines, line segments, rays, and angles -How can you classify triangles by the size of their angles How can you identify and draw parallel and perpendicular lines?
Prerequisite Student Knowledge *What should students have previously mastered prior to this unit?	Fractions are parts of a whole. Decimals are percentages of numbers. Fractions must be proper or improper.	Fractions can be proper or improper. Fractions can be added, subtracted, multiplied and divided.	Fractions can be solved by multiplying by whole numbers and also by fractions.	Fractions can be proper or improper. Fractions can be added, subtracted, multiplied and divided.	Lines, Geometric shapes, Triangles, and Angle measurement



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<p>Essential Knowledge & Student Expectations *What are the anticipated learning outcomes for students?</p>	<p>-Students will be able to Investigate Equivalent fractions -Generate Equivalent fractions -Write fractions in the simplest form</p>	<p>Build fractions from unit by applying and extending previous understandings of operations on whole numbers.</p>	<p>Build fractions from unit by applying and extending previous understandings of operations on whole numbers Write a fraction as a product of a whole number and a unit fraction.</p>	<p>Add subtract and relate fractions to fractions and decimals. Write equivalent fractions and decimals using models or place value.</p>	<p>Adding lines rays, and segment. Identify parallel and perpendicular lines</p>
<p>Anchor Text and Supplemental Texts *Illustrate texts used, and how students' knowledge builds across units.</p>	<p>Anchor text- Houghton Mifflin Harcourt – Go Math Common Core Edition Supplemental Texts- 6.1 Standards book Reteach book Enrich book</p>	<p>Anchor text- Houghton Mifflin Harcourt – Go Math Common Core Edition Supplemental Texts- 6.1 Standards book Reteach book Enrich book</p>	<p>Anchor text- Houghton Mifflin Harcourt – Go Math Common Core Edition Supplemental Texts- 6.1 Standards book Reteach book Enrich book</p>	<p>Anchor text- Houghton Mifflin Harcourt – Go Math Common Core Edition Supplemental Texts- 6.1 Standards book Reteach book Enrich book</p>	<p>Anchor text- Houghton Mifflin Harcourt – Go Math Common Core Edition Supplemental Texts- 6.1 Standards book Reteach book Enrich book</p>



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<p>Multi-Media Links: *Videos, presentations, any and all supplemental online material.</p>	<p>www.Carmen Sandiego Math Detective Activities Online activities www.HMH – Mega math Introduces math lesson www.gomath.com lessons and activities www.khanacademy.com math problems to solve http://www.discoveryeducation.com/ solving problems through practice</p>	<p>www.Carmen Sandiego Math Detective Activities Online activities www.HMH – Mega math Introduces math lesson www.gomath.com Lesson www.khanacademy.com lessons and activities www.math problems.com to solve http://www.discoveryeducation.com/ solving problems through practice</p>	<p>www.Carmen Sandiego Math Detective Activities Online activities .www.HMH.com – Mega math Introduces math lesson www.gomath.com lessons and activities www.khanacademy.com practice working with fractions math problems to solve http://www.discoveryeducation.com/ solving problems through practice</p>	<p>www.Carmen Sandiego Math Detective Activities Online activities www.HMH – Mega math Introduces math lesson www.gomath.com lessons and activities www.khanacademy.com math problems to solve www.khanacademy.com solving problems through practice</p>	<p>www.Carmen Sandiego Math Detective Activities Online activities www.HMH – Mega math Introduces math lesson www.gomath.com lessons and activities www.khanacademy.com math problems to solve http://www.discoveryeducation.com/ solving problems through practice</p>
<p>Instructional Practices: * Various Instructional Modalities, including Technology used</p>	<p>Student edition Practice book also digital Itools Grab and go activity centers Enrich blackline masters</p>	<p>Student edition Practice book also digital Itools Grab and go activity centers Enrich blackline masters</p>	<p>Student edition Practice book also digital Itools Grab and go activity centers Enrich blackline masters</p>	<p>Student edition Practice book also digital Itools Grab and go activity centers Enrich blackline masters</p>	<p>Student edition Practice book also digital Itools Grab and go activity centers Enrich blackline masters</p>
<p>Assessments: *Types and Measurements of Mastery</p>	<p>Informal assessments- Online assessment system Homework, Classwork Bell work RETEACH BOOK Lesson quick check Test Prep Mid chapter check point Chapter test</p>	<p>Informal assessments- Online assessment system Homework, Classwork Bell work RETEACH BOOK Lesson quick check Test Prep Mid chapter check point Chapter test</p>	<p>Informal assessments- Online assessment system Homework, Classwork Bell work RETEACH BOOK Lesson quick check Test Prep Mid chapter check point Chapter test</p>	<p>Informal assessments- Online assessment system Homework, Classwork Bell work RETEACH BOOK Lesson quick check Test Prep Mid chapter check point Chapter test</p>	<p>Informal assessments- Online assessment system Homework, Classwork Bell work RETEACH BOOK Lesson quick check Test Prep Mid chapter check point Chapter test</p>



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Interdisciplinary Lessons & Projects: *State additional content areas and title all lesson(s) and project(s)	Reading for understanding Thinking abstractly Science to correlate with math skill and subject area in Science Writing	Reading for understanding Thinking abstractly Science to correlate with math skill and subject area in Science Writing	Reading for understanding Thinking abstractly Science to correlate with math skill and subject area in Science Writing	Reading for understanding Thinking abstractly Science to correlate with math skill and subject area in Science Writing	Reading for understanding Thinking abstractly Science to correlate with math skill and subject area in Science Writing
Honors Course Differentiation(s):	N/A	N/A	N/A	N/A	N/A
Integrated Common Core or NGSSS Standards (List): *See Below for Links	CC.4.NBT.1 CC.4.NBT.2 CC.NBT.3 CC.NBT.4 CC.4.NBT.4	CC.4.OA.1 CC.4.OA.2 CC.4.OA.3 CC.4.NBT.5 CC.4.NBT.1 CC.4.NBT.3	CC.4.NBT.1 CC.4.NBT.2 CC.NBT.3 CC.NBT.4 CC.4.NBT.4	CC.4.OA.1 CC.4.OA.2 CC.4.OA.3 CC.4.NBT.5 CC.4.NBT.1 CC.4.NBT.3	CC.4.OA.1 CC.4.OA.2 CC.4.OA.3 CC.4.NBT.5 CC.4.NBT.1 CC.4.NBT.3
Integrated CCSS Writing Standards (List): *See Below for Links	N/A	N/A	N/A	N/A	N/A
Links to CCSS/NGSSS Curriculum Standards:	The following links will be used to incorporate the CCSS and other applicable standards: <ul style="list-style-type: none"> • The Common Core State Standard expectations in Grade 4. • The K-12 English LA and Content Area Writing Standards • The K-12 Reading Standards • The K-12 Mathematics Standards • The K-12 NGSSS Science & Social Studies Standards 				

