Curriculum Map - Scope and Sequence:
Grade 6 Math

Saddlebrook Preparatory School

Purpose of Planning	Unit One Q1/W1- 4	Unit Two Q1/ W5-9	Unit Three Q2/W1-4	Unit Four Q2/W5-9	Unit Five Q3/W1-4
Unit Topic and Overview:	**Multiply & Divide Decimals** **Essential Question:** How can you use place value, multiplication, and expressions to represent and solve problems? Solve real world problems involving multiplication and division.	**Multiply & Divide Fractions** **Essential Questions:** How can you divide whole numbers? Solve real world problems involving multiplication and division of fractions.	**Data Analysis** **Essential Questions:** How can you add and subtract decimals? Determine mean, median, mode and range to describe and analyze data.	**Ratios & Rates** **Essential Questions:** How can you solve decimal multiplication problems? Connect ratios and rates to multiplication and division.	**Fractions, Decimals & Percent** **Essential Questions:** How can you solve decimal division problems? Compare, order, estimate, and solve proble Essential Questions: How can you solve decimal multiplication problems?ms with fractions, decimals and percents.
Prerequisite Student Knowledge *What should students have previously mastered prior to this unit?	Students should have background knowledge of: -multiplication and division factors - the correlation between fractions and decimals -how to multiply and divide decimals	Students should have background knowledge of: -division and the correlation between fractions and decimals.	Students should have background knowledge of: -determining the mean and median. -interpreting and creating graphs.	Students should have background knowledge of: -reading a table. -creating a tally chart.	Students should have background knowledge of: -working with ratios -creating tables -creating bar graphs
Essential Knowledge & Student Expectations *What are the anticipated learning outcomes for students?	Students demonstrate knowledge by: -Estimating the product of decimals and judging the reasonableness of the results -Rounding decimals -Multiplying decimals by whole numbers and multiplying decimals by decimals. -Dividing decimals by whole numbers and decimals. -Estimating quotients	Students demonstrate knowledge by: -using models to explore part of a number -multiplying fractions using models -dividing whole numbers by fractions -dividing mixed numbers -dividing whole numbers by fractions	Students demonstrate knowledge by: -using models to find the mean of a data set -using a spreadsheet to find the mean, median and mode.	Students demonstrate knowledge by: --exploring ratios using models -expressing ratios and rates in fraction form -using ratio tables to represent and solve problems involving equivalent ratios -determining whether two ratios are equivalent -solving ratio and rate problems using bar diagrams	Students demonstrate knowledge by: -writing decimals as fractions or mixed numbers in simplest form -writing percents as fractions -writing fractions as percents -expressing percents as decimals and decimals as percents -comparing fractions

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Anchor Text and Supplemental Texts *Illustrate texts used, and how students' knowledge builds across units.	**Anchor Text**: Glenco McGraw-Hill *Florida Connects* Course 1 -Chapter practice for NGSSS **Supplemental Texts:** *Florida Connects Fair Game* workbook Course 1	**Anchor Text**: Glenco McGraw-Hill *Florida Connects* Course 1 - Chapter practice for NGSSS **Supplemental Texts:** *Florida Connects Fair Game* workbook Course 1	**Anchor Text:** Glenco McGraw-Hill *Florida Connects* Course 1 - Chapter practice for NGSSS **Supplemental Texts:** *Florida Connects Fair Game* workbook Course 1	**Anchor Text**: Glenco McGraw-Hill *Florida Connects* Course 1 - Chapter practice for NGSSS **Supplemental Texts:** *Florida Connects Fair Game* workbook Course 1	**Anchor Text:** Glenco McGraw-Hill *Florida Connects* Course 1 - Chapter practice for NGSSS **Supplemental Texts:** *Florida Connects Fair Game* workbook Course 1
Multi-Media Links: *Videos, presentations, any and all supplemental online material.	Khan Academy www.khanacademy.com Textbook Interactive Lessons www.glencoe.com Fun Math Games & Demos www.funmath.com You Tube Videos www.youtube.som	Khan Academy www.khanacademy.com Textbook Interactive Lessons www.glencoe.com Fun Math Games & Demos www.funmath.com You Tube Videos www.youtube.som	Khan Academy www.khanacademy.com Textbook Interactive Lessons www.glencoe.com Fun Math Games & Demos www.funmath.com You Tube Videos www.youtube.som	Khan Academy www.khanacademy.com Textbook Interactive Lessons www.glencoe.com Fun Math Games & Demos www.funmath.com You Tube Videos www.youtube.som	Khan Academy www.khanacademy.com Textbook Interactive Lessons www.glencoe.com Fun Math Games & Demos www.funmath.com You Tube Videos www.youtube.som
Instructional Practices: * Various Instructional Modalities, including Technology used	**Essential Questions:** How can you use place value, multiplication, and expressions to represent and solve problems? -Lecture, modeling, demonstration -Interactive whiteboard -Computer -Mimio	**Essential Questions:** How can you divide whole numbers? -Lecture, modeling, demonstration -Interactive whiteboard -Computer -Mimio	**Essential Questions:** How can you add and subtract decimals? -Lecture, modeling, demonstration -Interactive whiteboard -Computer -Mimio	**Essential Questions:** How can you solve decimal multiplication problems? -Lecture, modeling, demonstration -Interactive whiteboard -Computer -Mimio	**Essential Questions:** How can you solve decimal division problems? -Lecture, modeling, demonstration -Interactive whiteboard -Computer -Mimio
Assessments: *Types and Measurements of Mastery	-Bellwork -Homework -Worksheets -Practice and problem solving -Spiral review from textbook -Interactive math games -Chapter review practice test -End of chapter tests 80% of the students will 80% or higher on all assessments	-Bellwork -Homework -Worksheets -Practice and problem solving -Spiral review from textbook -Interactive math games -Chapter review practice test -End of chapter tests 80% of the students will 80% or higher on all assessments	-Bellwork -Homework -Worksheets -Practice and problem solving -Spiral review from textbook -Interactive math games -Chapter review practice test -End of chapter tests -End of chapter tests 80% of the students will 80% or higher on all assessments	-Bellwork -Homework -Worksheets -Practice and problem solving -Spiral review from textbook -Interactive math games -Chapter review practice test -End of chapter tests -End of chapter tests 80% of the students will 80% or higher on all assessments	-Bellwork -Homework -Worksheets -Interactive math games -Practice and problem solving -Spiral review from textbook -Chapter review practice test -End of chapter tests -End of chapter tests 80% of the students will 80% or higher on all assessments

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Interdisciplinary Lessons & Projects: *State additional content areas and title all lesson(s) and project(s)	National Science Association Lesson Plans https://www.nsa.gov/academia/early_opportunities/math_edu_partnership/collected_lea -Projects	National Science Association Lesson Plans https://www.nsa.gov/academia/early_opportunities/math_edu_partnership/collected_lea -Projects -Practice and problem solving -Spiral review from textbook	National Science Association Lesson Plans https://www.nsa.gov/academia/early_opportunities/math_edu_partnership/collected_lea -Projects -Practice and problem solving -Spiral review from textbook	National Science Association Lesson Plans https://www.nsa.gov/academia/early_opportunities/math_edu_partnership/collected_lea -Projects -Practice and problem solving -Spiral review from textbook	National Science Association Lesson Plans https://www.nsa.gov/academia/early_opportunities/math_edu_partnership/collected_lea -Projects -Practice and problem solving -Spiral review from textbook
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	MA.6.A.1.1 MA.6.A.1.2 M.A.6 A.1.3 M.A.6.A.5.3 M.A.5.A.2.2	MA.6.A.1.1 MA.6.A.1.2 M.A.6 A.1.3 M.A.6.A.5.3 M.A.5.A.2.2	MA.6.5.6.1	MA.6.A.2.1 MA.6.A.2.2	MA.6.A.5.1
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 incorpotae the CCSS and other applicable standards: • The Common Core State Standard expectations in grade 6 • 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** **Algebraic Expressions** **Q3/W5-9**	**Unit Seven** **Solve Equations** **Q4/1-4**	**Unit Eight** **Functions & Inequalities** **Q4/W5-9**		

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Unit Topic and Overview:	**Essential Questions:** How can you add and subtract fractions with unlike denominators? Write, interpret, and use expressions and equations.	**Essential Questions:** How do you multiply fractions? Write, interpret, and use one and two step equations.	**Essential Questions:** What strategies can you use to solve division problems involving fractions? Write, interpret and use mathematical expressions and equations.		
Prerequisite Student Knowledge *What should students have previously mastered prior to this unit?	Students should have background knowledge of: -exponents -adding and subtracting fractions with equal and unequal denominators.	Students should have background knowledge of: -how to write fractions in their simplest form -finding the least common denominator	Students should have background knowledge of: -the expressions greater than, less than or equal to -how to solve a basic equation -describing data		
Essential Knowledge & Student Expectations *What are the anticipated learning outcomes for students?	Students demonstrate knowledge by: -finding the value of expressions using the order of operations -evaluating algebraic expressions -writing verbal phrases as simple algebraic expressions.	Students demonstrate knowledge by: -solving equations by using mental math and the guess and check strategy. -solving addition and subtraction equations -solving multiplication and division equations. -writing and solving two step equations.	Students demonstrate knowledge by: -using ordered pairs to graph relations -illustrating functions using technology -extending and describing arithmetic sequences using algebraic expressions -using models to determine the truth of inequalities -writing and graphing inequalities -writing, solving, and graphing, two step linear equalities.		
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Multi-Media Links: *Videos, presentations, any and all supplemental online material.	Khan Academy www.khanacademy.com Textbook Interactive Lessons www.glencoe.com Fun Math Games & Demos www.funmath.com You Tube Videos www.youtube.som	Khan Academy www.khanacademy.com Textbook Interactive Lessons www.glencoe.com Fun Math Games & Demos www.funmath.com You Tube Videos www.youtube.som	Khan Academy www.khanacademy.com Textbook Interactive Lessons www.glencoe.com Fun Math Games & Demos www.funmath.com You Tube Videos www.youtube.som		
Instructional Practices: * Various Instructional Modalities, including Technology used	**Essential Questions:** How can you add and subtract fractions with unlike denominators? -Textbook, workbook -Lecture, modeling, demonstration -Interactive whiteboard -Computer -Mimio	**Essential Questions:** How do you multiply fractions? -Textbook, workbook -Lecture, modeling, demonstration -Interactive whiteboard -Computer -Mimio	**Essential Questions:** What strategies can you use to solve division problems involving fractions? -Textbook, workbook -Lecture, modeling, demonstration -Interactive whiteboard -Computer -Mimio		
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