Teacher: Fitzgerald, Rodgers, Woolridge	Course: Mathematics	Grade Level(s): 6

	Month: SEPTEMBER Topic(s): • TOPIC 1: Variables and Expressions • TOPIC 2: Equations and Inequalities
Content/Big Ideas	Expressions and Equations • Number uses, classification, and representation • Base 10 numeration system • Equivalence • Comparison and Representation • Properties • Estimation • Variables • Patterns, relations, and functions • Solving equations and inequalities • Practices, processes and proficiencies
Essential Questions	• What are expressions and how they can be written and evaluated? • What arithmetic properties are always true? • What procedures can be used to solve equations and inequalities?
Concepts	Writing, interpreting, and using equations • Apply and extend previous understandings of arithmetic to algebraic expressions. • Reason about and solve one-variable equations and inequalities.
Competencies	• Read, write, evaluate expressions; properties of operations, equivalent expressions. • Reason about and solve one-variable equations and inequalities.
Standards/Benchmarks	• CC.2.2.6.B.1 • CC.2.2.6.B.2 • CC.2.1.6.E.3
Activities & Assessments	• Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests

Teacher: Fitzgerald, Rodgers, Woolridge	Course: Mathematics	Grade Level(s): 6

	Month: OCTOBER Topic(s): • TOPIC 3: Patterns and Equations • TOPIC 4: Achieving Fluency: Adding, Subtracting, and Multiplying Decimals
Content/Big Ideas	Expressions and Equations • Number uses, classification, and representation • Base 10 numeration system • Equivalence • Comparison and Representation • Properties • Estimation • Variables • Patterns, relations, and functions • Solving equations and inequalities • Practices, processes and proficiencies The Number System • Numbers and the number line • Operation meanings and relationships • Basic facts and algorithms
Essential Questions	• How can equations be written? • What patterns can be found in tables of values? • How are adding, subtracting, and multiplying decimals the same as and different than using the same operations with whole numbers?
Concepts	Writing, interpreting, and using expressions and equations • Reason about and solve one-variable equations and inequalities. • Represent and analyze quantitative relationships between dependent and independent variables. Compute fluently with multi-digit numbers and find common factors and multiples
Competencies	• Represent and analyze quantitative relationships between dependent and independent variables. • Addition, subtraction, and multiplication of multi-digit decimals
Standards/Benchmarks	• CC.2.2.6.B.2 • CC.2.2.6.B.3 • CC.2.1.6.E.2
Activities & Assessments	• Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests

Teacher: Fitzgerald, Rodgers, Woolridge	Course: Mathematics	Grade Level(s): 6

	Month: NOVEMBER Topic(s): • TOPIC 5: Achieving Fluency: Dividing whole numbers and decimals • TOPIC 6: Dividing Fractions
Content/Big Ideas	The Number System • Number uses, classification, and representation • Numbers and the number line • Equivalence • Operation Meanings and relationships • Basic facts and algorithms • Estimation • Patterns, relations, and functions • Solving equations and inequalities • Practices, processes and proficiencies
Essential Questions	• How are quotients involving whole numbers and decimals estimated and found? • What are standard procedures for estimating and finding quotients of fractions and mixed numbers?
Concepts	Completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which include negative numbers. • Compute fluently with multi-digit numbers and find common factors and multiples • Apply and extend previous understandings of multiplication and division to divide fractions by fractions. • Apply and extend previous understandings of numbers to the system of rational numbers.
Competencies	• Fluently divide multi-digit whole numbers and decimals • Greatest common factor, least common multiple; interpret and compute quotients of fractions
Standards/Benchmarks	• CC.2.2.6.B.1 • CC.2.2.6.B.2 • CC.2.1.6.E.1 • CC.2.1.6.E.2 • CC.2.1.6.E.3 • CC.2.1.6.E.4
Activities & Assessments	• Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests

Teacher: Fitzgerald, Rodgers, Woolridge	Course: Mathematics	Grade Level(s): 6

	Month: DECEMBER Topic(s): • TOPIC 6: Dividing Fractions
Content/Big Ideas	The Number System • Number uses, classification, and representation • Numbers and the number line • Equivalence • Operation Meanings and relationships • Basic facts and algorithms • Estimation • Patterns, relations, and functions • Solving equations and inequalities • Practices, processes and proficiencies
Essential Questions	• What are standard procedures for estimating and finding quotients of fractions and mixed numbers?
Concepts	Completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which include negative numbers. • Compute fluently with multi-digit numbers and find common factors and multiples • Apply and extend previous understandings of multiplication and division to divide fractions by fractions. • Apply and extend previous understandings of numbers to the system of rational numbers.
Competencies	• Greatest common factor, least common multiple; interpret and compute quotients of fractions
Standards/Benchmarks	• CC.2.2.6.B.1 • CC.2.2.6.B.2 • CC.2.1.6.E.1 • CC.2.1.6.E.3 • CC.2.1.6.E.6
Activities & Assessments	• Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests

Teacher: Fitzgerald, Rodgers, Woolridge	Course: Mathematics	Grade Level(s): 6

	Month: JANUARY Topic(s): • TOPIC 7: Integers and other rational numbers • TOPIC 8: Coordinate geometry
Content/Big Ideas	The Number System • Number uses, classification, and representation • Numbers and the number line • Equivalence • Operation Meanings and relationships • Basic facts and algorithms • Estimation • Patterns, relations, and functions • Solving equations and inequalities • Practices, processes and proficiencies
Essential Questions	• What are integers? • How can you compare rational numbers? • How are points graphed on a coordinate plane? • How are equations that can relate real world quantities graphed?
Concepts	Completing understanding of division of fractions and extending the notion of numbers to the system of rational numbers which includes negative numbers. • Apply and extend previous understandings of numbers to the system of rational numbers
Competencies	• Apply and extend previous understandings of numbers to the system of rational numbers • Graphing points; distances between points; graphing equations
Standards/Benchmarks	• CC.2.1.6.E.4 • CC.2.3.6.A.1 • CC.2.2.6.B.3
Activities & Assessments	• Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests

	Month: FEBRUARY **Topic(s):** • Topic 9: RATIOS • Topic 10: RATES (WILL BE CONT'D)
Content/Big Ideas	• Numbers and the Number Line • Equivalence • Comparisons and relationships • Estimation • Ratio and Proportionality • Practices, Processes, and Proficiencies
Essential Questions	• How can customary and Metric measurements be converted to other units? • What are ratios and rates and how are they used in solving problems?
Concepts	Connecting ratio and rate to whole number multiplication and division using concepts of ratio and rate to solve problems. • Understand ratio concepts and use ratio reasoning to solve problems.
Competencies	• Use rates reasoning to solve problems; converting customary and metric units. • Understand ratio concepts
Standards/Benchmarks	• CC.2.1.6.D.1
Activities & Assessments	• Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests

Teacher: Fitzgerald, Rodgers, Woolridge   Course: Mathematics Grade Level(s): 6

Teacher: Fitzgerald, Rodgers, Woolridge	Course: Mathematics Grade Level(s): 6
	Month: MARCH Topic(s): • Topic 10: RATES (CONT'D) • Topic 11: PERCENTS
Content/Big Ideas	• Numbers and the Number Line • Equivalence • Comparisons and relationships • Estimation • Ratio and Proportionality • Practices, Processes, and Proficiencies
Essential Questions	• How can customary and Metric measurements be converted to other units? • What are ratios and rates and how are they used in solving problems? • What is the meaning of percent? • How can percent be estimated and found?
Concepts	Connecting ratio and rate to whole number multiplication and division using concepts of ratio and rate to solve problems. • Understand ratio concepts and use ratio reasoning to solve problems.
Competencies	• Use rates reasoning to solve problems; converting customary and metric units. • Solving percent problems involving finding the whole, given the part and the percent
Standards/Benchmarks	• CC.2.1.6.D.1
Activities & Assessments	• Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests

Teacher: Fitzgerald, Rodgers, Woolridge	Course: Mathematics Grade Level(s): 6
	Month: APRIL **Topic(s):** • Topic12: AREA • Topic 13: SURFACE AREA AND VOLUME
Content/Big Ideas	• Operations meanings and relationships • Estimation • Ratio and proportionality • Geometric Figures • Measurement • Practices, Processes, and Proficiencies
Essential Questions	• How can the area of certain shapes be found? • What is the meaning of surface area? And how can surface area be found? • What is the meaning of volume and how can it be found?
Concepts	Connections to Critical Areas • Solve real-world and mathematical problems involving area, surface area, and volume. • Summarize and describe distributions
Competencies	• Area of Polygons • Solving surface area and volume problems
Standards/Benchmarks	• CC.2.3.6.A.1
Activities & Assessments	• Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests

Teacher: Fitzgerald, Rodgers, Woolridge Course: Mathematics Grade Level(s): 6	
	Month: MAY Topic(s): • TOPIC 14: Statistics • STEP-UP: To Grade 7 Lessons
Content/Big Ideas	Statistics • Data collection and representation • Data distribution • Practices, Processes, and Proficiencies
Essential Questions	How can graphs be used to represent data and answer questions?
Concepts	• Developing understanding of statistical thinking • Developing understanding of statistical variability • Summarize and describe distributions
Competencies	• Understanding of statistical variability, summarize, and describe distributions
Standards/Benchmarks	• CC.2.4.6.B.1 • CC.2.4.6.B.2
Activities & Assessments	• Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests