PACING GUIDE

COURSE: College Prep Math 1 **GRADE(S): 12**

MONTH/ DAYS	UNIT #	STANDARDS	CONTENT Topics being covered? What do students need to know? (*nouns*)	ACTIVITIES w/Integration of Technology & Career Ready Practices	ASSESSMENTS What evidence (formative/summative) is utilized to establish that the content, standards, & skills have been mastered?
September 12 days)	1 (Operation on Whole Numbers)	MA.9-12.4.1 (All students will develop …) MA.9-12.4.1.12 A (Number Sense) MA.9-12.4.1.12 C (Estimation)	•The Decimal Place-Value System • Addition of Whole Numbers • Subtraction of whole Numbers • Rounding, Estimating, and Ordering Whole Numbers • Multiplication of Whole Numbers • Exponential Notation and Order of Operations • Division of Whole Numbers	• Review, examples, and practice with the decimal place-value system • Review, examples, and practice with addition of whole numbers. • Review, examples, and practice with subtraction of whole numbers. • Review, examples, and practice with multiplication of whole numbers. • Review, examples, and practice with division of whole numbers. • Review, examples, and practice with exponential notation and the order of operations with whole numbers. • Problems with real life applications will be covered with each concept in this unit. • Review, examples, and practice with rounding, estimating, and ordering whole numbers.	· Quiz on basic operation with whole numbers · Unit Test on Operations with Whole Number · Accuplacer Practice Test · Accuplacer Test
September (12 days)	2 Multiplying and Dividing Fractions	MA.912.4.1.12B(Numerical Operations) MA.9-12.4.1.12B.1(Extend understanding and use of operations to real numbers … procedures.) MA.9-12.4.5.12A(Problem Solving) MA.9-12.4.5.12C(Connections)	• Prime Numbers and Divisibility • Factoring Whole Numbers • Fraction Basics • Simplifying Fractions • Multiplying Fractions • Dividing Fractions	• Explanation, examples, and practice with identifying prime numbers. • Using the sieve of Eratosthenes, students will identify the prime numbers from 1 through 100. • Explanation, examples, and practice with divisibility rules for the numbers 2, 3, 4, 6, 9, and 10. • Explanation, examples, and practice with 2 methods of prime factorization and determining the greatest common factor. • Explanation, examples, and practice with multiplication of fractions with applications. • Explanation, examples, and practice with division of fractions with applications. • Explanation, examples, and practice with identification of fraction basics: numerator, denominator, proper and improper fractions, and mixed numerals .	• Quiz on Prime numbers, Divisibility, Factoring whole numbers, and Simplifying fractions- sections 2 - 1 through 2 - 4 • Unit Test on Multiplying and Dividing Fractions

October: (14 days)	3 Adding and Subtracting Fractions	MA.9-12.4.1.12 B MA.9-12.4.1.12 C MA.9-12.4.5.12 A MA.9-12.4.5.12 C	• Adding and subtracting fractions with like denominators • Common multiples • Adding and subtracting fractions with unlike denominators • Adding and subtracting mixed numbers • Order of Operations with Fractions • Estimation Applications	Numerical Operations Estimation Problem Solving Connections • Explanation, examples, and practice with adding and subtracting fractions with like denominators and related applications • Explanation, examples, and practice with finding common multiples and the greatest common multiple • Explanation, examples, and practice with adding and subtracting fractions with unlike denominators and related applications • Explanation, examples, and practice with adding and subtracting mixed numbers and related applications • Explanation, examples, and practice with order of operations with fractions • Explanation, examples, and practice with estimation of fractions and their applications.	• Quiz on adding and subtracting fractions with like and unlike denominators, least common multiples, and, adding and subtraction mixed numbers (sections 3 - 1 through 3 - 4) • Unit Test on Adding and Subtracting Fractions • Accuplacer Practice Test • Accuplacer Test
November (12)days	4 Operations with Decimals	MA.9-12.4.1.12 B MA.9-12.4.1.12 C MA.9-12.4.5.12 A MA.9-12.4.5.12 C	• Place value and rounding • Converting between fractions and decimals • Adding and subtracting decimals • Multiplying decimals • Dividing decimals	• Explanation, examples, and practice with decimal place value and rounding • Explanation examples, and practice with conversions between fractions and decimals • Explanation, examples, and practice with adding decimals • Explanation, examples, and practice with subtraction of decimals • Explanation, examples, and practice with multiplication of decimals • Explanation, examples, and practice with division of decimals • Applications of decimals in real life	• Quiz on place value, rounding decimals, converting between fractions and decimals, and adding, subtracting, and multiplying decimals - (sections 4 - 1 through 4 - 4) • Unit Test on Operations with Decimals • Accuplacer Practice Test • Accuplacer Test
December (14 days)	5 Ratios and Proportions	MA.9-12.4.5.12 A MA.9-12.4.5.12 C	• Ratios • Rates and unit pricing • Proportions • Solving proportions	• Explanation , examples, and practice with writing a ratio of two quantities • Explanation , examples, and practice with writing a rate as a unit rate • Explanation, examples, and practice with comparing unit rates. • Explanation, examples, and practice with finding unit prices and using them to compare the cost of two items. • Explanation , examples, and practice with writing proportions • Explanation, examples, and practice determining whether two fractions are proportional. • Explanation, examples, and practice with solving a proportion. • Applications with proportions	• Quiz on Ratios, Rates and Unit Pricing, and Proportions (sections 5 - 1 through 5 - 3) • Unit Test on Ratios and Proportions • Accuplacer practice test • Accuplacer Test
January (16 days)	6 Percent Problems and Applications	MA.9-12.4.5.12 A MA.9-12.4.5.12 C	• Writing Percents as Fractions and Decimals • Writing Decimals and Fractions as Percents • Identifying the Parts of a Percent Problem • Solving Percent Problems	• Explanation , examples, and practice with writing a percent as a fraction • Explanation, examples, and practice with writing a percent as a decimal. • Explanation, examples, and practice with writing a decimal as a percent. • Explanation, examples, and practice with writing a fraction or mixed number as a percent. • Explanation, examples, and practice with identifying the rate in a percent problem. • Explanation, examples, and practice with identifying the base in a percent problem.	• Quiz on the 3 basic types of percent problems • Unit Test on Percent Problems and Applications • Accuplacer practice test • Accuplacer Test

				• Explanation, examples, and practice with identifying the amount in a percent problem. • Explanation, examples, and practice with solving a basic percent problem. • Explanation, examples, and practice solving problems involving percent applications. • Explanation, examples, and practice solving applications that involve percent of increase and decrease. • Explanation, examples, and practice solving percent applications involving interest.	