PACING GUIDE

COURSE: COLLEGE PREP 2 **GRADE(S): 12**

MONTH	UNIT	STANDARDS/SKILLS	ASSESSMENTS What evidence (formative/summative) is utilized to establish that the content, standards, & skills have been mastered?	CONTENT Topics being covered? What do students need to know? (*nouns*)	ACTIVITIES w/Integration of Technology & Career Ready Practices
February (12 days)	1 The Real Number System	MA.9-12.A-SSE.A.2 MA.9-12.A-SSE.B.3 MA.9-12.A-SSE.A.1a MA.9-12.4.1 MA.9-12.4.1.12 A MA.9-12.4.1.12 B	• Quiz on exponents, order of operations, variable expressions and equations, and adding real numbers - (sections 1.1 - 1.3) • Unit Test on The Real Number System • Accuplacer Practice Test • Accuplacer Test	• Exponents, Order of Operations, and Inequality • Variables, Expressions, and Equations • Real Numbers and the Number Line • Adding Real Numbers • Subtracting Real Numbers • Multiplying and Dividing Real Numbers • Properties of Real Numbers • Simplifying Expressions	• Review, examples, and practice using order of operations with exponents. • Examples and practice with translation of word statements into symbols. • Review, examples, and practice with variable expressions and equations • Review, examples, and practice classifying and ordering real numbers. • Review, examples, and practice with opposites and absolute value. • Review, examples, and practice adding real numbers • Review, examples, and practice subtracting real numbers. • Review, examples, and practice multiplying and dividing real numbers • Review, examples, and practice with identification of number properties. • Review, examples, and practice simplifying expressions with variables
February (12 days)	2 Equations, Inequalities, and Applications	MA.9-12.A-REI.B.3 MA.9-12.A-CED.A.1 MA.9-12.A-REI.A.1	• Quiz on solving linear equations - (sections 2.1 - 2.4) • Unit Test on Equations, Inequalities, and Applications • Accuplacer Practice Test	• The Addition Property of Equality • The Subtraction Property of Equality • More on Solving Linear	• Review, examples, and practice solving addition and subtraction equations. • Review, examples, and practice solving

			• Accuplacer Test	Equations • An Introduction to Applications of Linear Equations • Ratio, Proportion, and Percent • Solving Linear Inequalities	multiplication and division equations • Review, examples, and practice solving mufti- step linear equations • Review, examples, and practice solving applications of linear equations • Review, examples, and practice solving ratio, proportion, and percent problems. • Review, examples, and practice solving linear inequalities
March (14 days)	3 Graphs of Linear Equations in Two Variables	MA.9-12.A-REI.D.10 MA.9-12.4.2.12 C MA.9-12.4.3 MA.9-12.A-REI.D.11	• Quiz on reading graphs, graphing linear equations in 2 variables, and slope of a line - (sections 3.1 - 3.3) . • Unit Test on Graphs of Linear Equations in Two Variables . • Accuplacer Practice Test . • Accuplacer Test .	• Reading Graphs; Linear Equations in Two Variables • Graphing Linear Equations in Two Variables • Slope of a Line • Equations of Lines	• Explanation, examples, and practice reading graphs • Explanation, examples, and practice graphing linear equations in two variables. • Explanation, examples, and practice finding the slope of a line. • Explanation, examples, and practice writing an equation of a line given the slope and y - intercept. • Explanation, examples, and practice with writing an equation of line given its slope and any point on the line. • Explanation, examples, and practice writing an equation of a line given two points on the line.
March (13 days)	4 Exponents and Polynomials	MA.9-12.A-APR.A.1 MA.9-12.A-APR.D.6 MA.9-12.4.1.12 B MA.9-12.4.3.12 D	• Quiz on adding, subtracting, and multiplying polynomials and product rule and power rule for exponents (sections 5.1 - 5.3) • Unit test on Exponents and Polynomials • Accuplacer Practice Test • Accuplacer Test	• Adding and Subtracting Polynomials . • The Product Rule and Power Rules for Exponents . • Multiplying Polynomials . • Special Products . • Integers, Exponents, and	• Explanation, examples, and practice adding and subtracting polynomials. • Explanation, examples, and practice applying the product of powers and power of powers rules. • Explanation, examples, and practice multiplying polynomials.

				the Quotient Rule . • Dividing a Polynomial by a Monomial . • Dividing a Polynomial by a Polynomial . • An Application of Exponents; Scientific Notation .	• Explanation, examples, and practice simplifying special (binomial) products • Explanation, examples, and practice simplifying expressions containing negative and zero exponents. • Explanation, examples, and practice dividing a polynomial by a monomial. • Explanation, examples, and practice dividing a polynomial by polynomial. • Explanation, examples, and practice converting numbers to scientific notation and vice versa.
April (14 days)	5 Factoring and Applications	MA.9-12.A-REI.B.4	• Quiz on Factoring Polynomials • Unit Test on Factoring Polynomials and Applications • Accuplacer Practice Test • Accuplacer Test	• Factors; The Greatest Common Factor • Factoring Trinomials • Factoring Trinomials by Grouping • Factoring Trinomials by FOIL • Special Factoring Techniques	• Explanation, examples, and practice finding and factoring out the greatest common factor. • Explanation, examples, and practice factoring trinomials • Explanation, examples, and practice factoring trinomials by grouping. • Explanation, examples, and practice factoring trinomials using foil and the complete factoring methods. • Explanation, examples, and practice using special factoring techniques.
May (15 days)	6 Rational Expressions and Applications	MA.9-12.A-APR.A.1 MA.9-12.A-APR.D.7	• Quiz on properties of rational expressions and multiplying and dividing rational expression (sections 7.1 & 7.2) • Quiz on sections least common denominators, adding and subtracting rational expressions, and complex fractions (7.3 - 7.5) • Unit test on Rational	• The Fundamental Property of Rational Expressions • Multiplying and Dividing Rational Expressions • Least Common Denominators • Adding and Subtracting Rational Expressions • Complex Fractions • Solving Equations with	• Explanation examples, and practice finding values of the variable for which a rational expression is undefined. • Explanation, examples, and practice writing rational expressions in lowest terms. • Explanation, examples,

			Expressions and Applications • Accuplacer Practice Test • Accuplacer Test	Rational Expressions • Applications of Rational Expressions	and practice multiplying rational expressions • Explanation, examples, and practice dividing rational expressions • Explanation, examples, and practice finding the least common denominator for a list of fractions. • Explanation, examples, and practice adding and subtracting rational expressions having the same denominators. • Explanation, examples, and practice adding and subtracting rational expressions having different denominators. • Explanation, examples, and practice simplifying complex fractions by writing it as a division problem. • Explanation, examples, and practice simplifying complex fractions by multiplying the numerator and denominator by the least common denominator. • Explanation, examples, and practice solving equations with rational expressions. • Explanation, examples, and practice solving word problems involving distance, rate, and time. • Explanation, examples, and practice solving word problems involving hours worked.
