# Curriculum Map Pre-Algebra

Dr. Ferguson

| Week | Unit Name (Topic) | Lesson | Objectives | Standards and Eligible Content | Resources | Assessments | Adaptations Modifications | Vocab |
|---|---|---|---|---|---|---|---|---|
| 1-6 | Operations with Rational Numbers | Add and subtract Rational Numbers<br><br>Addition and Subtraction on a number line<br><br>Multiply and Divide rational numbers<br><br>Order of Operations | Apply and extend previous understandings of operations with fractions to operations with rational numbers. | CC.2.1.7.E.1<br>M07.A-N.1.1.1<br>M07.A-N.1.1.2<br>M07.A-N.1.1.3 | Internet<br><br>Netbooks<br><br>SMART Board<br><br>Calculators<br><br>Get More Math | Informal Observations<br><br>Classwork<br><br>Homework<br><br>Quizzes<br><br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Absolute Value<br><br>Additive Inverse<br><br>Integers<br><br>Multiplicative Inverse<br><br>Natural Numbers<br><br>Opposite Numbers<br><br>Order of Operations<br><br>Rational Numbers<br><br>Real Numbers<br><br>Repeating Decimals |
| 7-9 | Ratios and Proportional Relationships | Compute Unit Rates<br><br>Identify Proportionality Related Quantities<br><br>Identify Constant of Proportionality | Analyze proportional relationships and use them to model and solve real-world and mathematical problems. | CC.2.1.7.D.1<br>M07.A-R.1.1.1<br>M07.A-R.1.1.2<br>M07.A-R.1.1.3<br>M07.A-R.1.1.4<br>M07.A-R.1.1.5<br>M07.A-R.1.1.6 | Internet<br><br>Netbooks<br><br>SMART Board<br><br>Calculators<br><br>Get More Math | Informal Observations<br><br>Classwork<br><br>Homework<br><br>Quizzes<br><br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Constant of Proportionality<br><br>Equivalent Fractions<br><br>Proportion<br><br>Rate<br><br>Ratio<br><br>Unit Price<br><br>Unit Rate |

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| 10-13 | Ratios and Proportional Relationships | Represent Proportional Relationships by Equations<br><br>Interpret Graphs of Proportional Relationships<br><br>Solve Multi-Step Ratio & Percent Problems | Analyze proportional relationships and use them to model and solve real-world and mathematical problems. | CC.2.1.7.D.1<br>M07.A-R.1.1.1<br>M07.A-R.1.1.2<br>M07.A-R.1.1.3<br>M07.A-R.1.1.4<br>M07.A-R.1.1.5<br>M07.A-R.1.1.6 | Internet<br>Netbooks<br>SMART Board<br>Calculators<br>Get More Math | Informal Observations<br><br>Classwork<br><br>Homework<br><br>Quizzes<br><br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Commission<br>Discount<br>Gratuity<br>Interest<br>Interest Rate<br>Mark up<br>Per<br>Percent<br>Percent Change<br>Principal<br>Profit<br>Simple Interest<br>Tax<br>Tip |
| 14-15 | Expressions and Equations | Represent Expressions in Equivalent Forms | Apply properties of operations to generate equivalent expressions. | CC.2.2.7.B.1<br>M07.B-E.1.1.1 | Internet<br>Netbooks<br>SMART Board<br>Calculators<br>Get More Math | Informal Observations<br><br>Classwork<br><br>Homework<br><br>Quizzes<br><br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Algebraic Expressions<br>Constant<br>Linear Expression<br>Simplify<br>Substitute<br>Term<br>Variable |

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| 16-18 | One-Step Equations<br><br>Two-Step Equations | Expressions & Equations<br><br>Calculate & Convert Between Numbers in Any Form<br><br>Solve Applications of One-Step Equations<br><br>Solve Applications of Two-Step Equations | Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations. | CC.2.2.7.B.3<br>M07.B-E.2.1.1<br>M07.B-E.2.2.1<br>M07.B-E.2.2.2<br>M07.B-E.2.3.1<br>A1.1.1.4.1 | Internet<br><br>Netbooks<br><br>SMART Board<br><br>Calculators<br><br>Get More Math | Informal Observations<br><br>Classwork<br><br>Homework<br><br>Quizzes<br><br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Coefficient<br><br>Equation<br><br>Isolate<br><br>Solution Set<br><br>Variable |
| 19 | Distributive Property<br><br>Factoring | Add, Subtract, Factor, & Expand Linear Expressions | Apply properties of operations to generate equivalent expressions. | CC.2.2.7.B.1<br>M07.B-E.1.1.1 | Internet<br><br>Netbooks<br><br>SMART Board<br><br>Calculators<br><br>Get More Math | Informal Observations<br><br>Classwork<br><br>Homework<br><br>Quizzes<br><br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Additive Identity Property<br><br>Additive Inverse Property<br><br>Associative Property of Addition<br><br>Associative Property of Multiplication<br><br>Commutative Property of Addition<br><br>Commutative Property of Multiplication<br><br>Distributive Property |

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| | | | | | | | | Factor<br><br>Multiplicative Identity Property<br><br>Multiplicative Inverse Property |
| 20-22 | Inequalities | Solve and Graph Inequalities<br><br>Interpret Solutions in the Context of a Problem | Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations. | CC.2.2.7.B.3<br>M07.B-E.2.1.1<br>M07.B-E.2.2.1<br>M07.B-E.2.2.2<br>M07.B-E.2.3.1<br>A1.1.1.4.1 | Internet<br><br>Netbooks<br><br>SMART Board<br><br>Calculators<br><br>Get More Math | Informal Observations<br><br>Classwork<br><br>Homework<br><br>Quizzes<br><br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Coefficient<br><br>Compound Inequality<br><br>Equation<br><br>Inequality<br><br>Isolate<br><br>Solution Set<br><br>Variable |
| 23-24 | Two-Step Equations and Inequalities | Solve Applications of Two-Step Equations<br><br>Solve Applications of Two-Step Inequalities<br><br>Interpret Solutions in the Context of a Problem | Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations. | CC.2.2.7.B.3<br>M07.B-E.2.1.1<br>M07.B-E.2.2.1<br>M07.B-E.2.2.2<br>M07.B-E.2.3.1<br>A1.1.1.4.1 | Internet<br><br>Netbooks<br><br>SMART Board<br><br>Calculators<br><br>Get More Math | Informal Observations<br><br>Classwork<br><br>Homework<br><br>Quizzes<br><br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Coefficient<br><br>Compound Inequality<br><br>Equation<br><br>Inequality<br><br>Isolate<br><br>Solution Set<br><br>Variable |
| 25-27 | Operations with Rational Numbers | Solve Problems with Exponents | Apply and extend previous understandings of operations with | CC.2.1.7.E.1<br>M07.A-N.1.1.1<br>M07.A-N.1.1.2<br>M07.A-N.1.1.3 | Internet<br><br>Netbooks | Informal Observations<br><br>Classwork | Adaptations and modifications will be determined on an | Exponents |

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| | | | fractions to operations with rational numbers. | | SMART Board<br>Calculators<br>Get More Math | Homework<br>Quizzes<br>Tests | individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | |
| 28 | Operations with Rational Numbers | Add and subtract Rational Numbers<br>Addition and Subtraction on a number line<br>Multiply and Divide rational numbers<br>Order of Operations | Apply and extend previous understandings of operations with fractions to operations with rational numbers. | CC.2.1.7.E.1<br>M07.A-N.1.1.1<br>M07.A-N.1.1.2<br>M07.A-N.1.1.3 | Internet<br>Netbooks<br>SMART Board<br>Calculators<br>Get More Math | Informal Observations<br>Classwork<br>Homework<br>Quizzes<br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Absolute Value<br>Additive Inverse<br>Integers<br>Multiplicative Inverse<br>Natural Numbers<br>Opposite Numbers<br>Order of Operations<br>Rational Numbers<br>Real Numbers<br>Repeating Decimal |
| 29 | Ratios and Proportional Relationships | Compute Unit Rates<br>Identify Proportionality Related Quantities | Apply and extend previous understandings of ratios and proportional relationships. | CC.2.1.7.D.1<br>M07.A-R.1.1.1<br>M07.A-R.1.1.2<br>M07.A-R.1.1.3<br>M07.A-R.1.1.4<br>M07.A-R.1.1.5<br>M07.A-R.1.1.6 | Internet<br>Netbooks<br>SMART Board<br>Calculators | Informal Observations<br>Classwork<br>Homework<br>Quizzes | Adaptations and modifications will be determined on an individualized basis in consultation with the special | Commission<br>Constant of Proportionality<br>Discount<br>Equivalent |

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| | | Identify Constant of Proportionality<br><br>Represent Proportional Relationships by Equations<br><br>Interpret Graphs of Proportional Relationships<br><br>Solve Multi-Step Ratio & Percent Problems | | | Get More Math | Tests | education and gifted teachers, and dependent upon the needs of the students. | Fractions<br>Gratuity<br>Interest<br>Interest Rate<br>Mark up<br>Per<br>Percent<br>Percent Change<br>Principal<br>Profit<br>Proportion<br>Rate<br>Ratio<br>Simple Interest<br>Tax<br>Tip<br>Unit Price<br>Unit Rate |
| 30-31 | Expressions and Equations<br><br>One-Step Equations | Represent Expressions in Equivalent Forms<br><br>Expressions, Equations, & | Apply and extend previous understandings of expressions, equations, and inequalities | CC.2.2.7.B.1<br>M07.B-E.1.1.1<br>CC.2.2.7.B.3<br>M07.B-E.2.1.1<br>M07.B-E.2.2.1<br>M07.B-E.2.2.2<br>M07.B-E.2.3.1 | Internet<br><br>Netbooks<br><br>SMART Board<br><br>Calculators | Informal Observations<br><br>Classwork<br><br>Homework | Adaptations and modifications will be determined on an individualized basis in consultation with | Additive Identity Property<br><br>Additive Inverse Property<br><br>Algebraic |

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| | Two-Step Equations Distributive Property<br><br>Factoring<br><br>Inequalities | Inequalities<br><br>Calculate & Convert Between Numbers in Any Form<br><br>Solve Applications of One-Step Equations<br><br>Solve Applications of Two-Step Equations<br><br>Add, Subtract, Factor, & Expand Linear Expressions<br><br>Inequalities<br><br>Interpret Solutions in the Context of a Problem | | A1.1.1.4.1 | Get More Math | Quizzes<br><br>Tests | the special education and gifted teachers, and dependent upon the needs of the students. | Expressions<br><br>Associative Property of Addition<br><br>Associative Property of Multiplication<br><br>Coefficient<br><br>Commutative Property of Addition<br><br>Commutative Property of Multiplication<br><br>Compound Inequality<br><br>Constant<br><br>Distributive Property<br><br>Equation<br><br>Factor<br><br>Inequality<br><br>Isolate<br><br>Linear Expression<br><br>Multiplicative Identity Property<br><br>Multiplicative |

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| | | | | | | | | Inverse Property<br>Simplify<br>Solution Set<br>Substitute<br>Term<br>Variable |
| 32-33 | Geometry | Calculate Area, Volume, Perimeter, and Circumference.<br><br>Understand the relationships of angles<br><br>Calculate Area of Scaled Drawings | Solve real-world and mathematical problems involving angle measure, area, surface area, circumference, and volume.<br><br>Visualize and represent geometric figures and describe the relationships between them. | CC.2.3.7.A.1<br>M07.C-G.2.1.1<br>M07.C-G.2.1.2<br>M07.C-G.2.2.1<br>M07.C-G.2.2.2<br>CC.2.3.7.A.2<br>M07.C-G.1.1.1<br>M07.C-G.1.1.2<br>M07.C-G.1.1.3<br>M07.C-G.1.1.4 | Internet<br>Netbooks<br>SMART Board<br>Calculators<br>Get More Math | Informal Observations<br><br>Classwork<br><br>Homework<br><br>Quizzes<br><br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Acute Triangle<br>Adjacent Angles<br>Alternate Exterior Angles<br>Alternate Interior<br>Circumference<br>Complementary angles<br>Corresponding angles<br>Equilateral triangle<br>Isosceles triangle<br>Obtuse triangle<br>Scale drawing<br>Scalene triangle |

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| 34-36 | Statistics and Probability | Calculate Theoretical Probability and Experimental Probability<br><br>Understand Sample, Population, Data Distributions, and Random Sampling<br><br>Calculate Compound Probability | Draw inferences about populations based on random sampling concepts.<br><br>Draw informal comparative inferences about two populations.<br><br>Investigate chance processes and develop, use, and evaluate probability models. | CC.2.4.7.B.1<br>CC.2.4.7.B.2<br>M07.D-S.1.1.1<br>M07.D-S.1.1.2<br>M07.D-S.2.1.1<br><br>CC.2.4.7.B.3<br>M07.D-S.3.1.1<br>M07.D-S.3.2.1<br>M07.D-S.3.2.2<br>M07.D-S.3.2.3 | Internet<br><br>Netbooks<br><br>SMART Board<br><br>Calculators<br><br>Get More Math | Informal Observations<br><br>Classwork<br><br>Homework<br><br>Quizzes<br><br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Chance event<br><br>Compound event<br><br>Data distribution decrease<br><br>Equally likely<br><br>Independent event<br><br>Likely event<br><br>Outcome<br><br>Population<br><br>Probability<br><br>Random sample<br><br>Relative frequency |
| 37-38 | Budget | Budget and career simulation | Analyze budgets and pay statements | 13.3.8D | Internet<br><br>Netbooks<br><br>SMART Board<br><br>Calculators<br><br>Get More Math | Informal Observations<br><br>Classwork<br><br>Homework<br>Quizzes<br><br>Tests | Adaptations and modifications will be determined on an individualized basis in consultation with the special education and gifted teachers, and dependent upon the needs of the students. | Budget<br><br>Discretionary Income<br><br>Emergency Fund<br><br>Fixed Expense<br><br>Gross Income<br><br>Mortgage<br><br>Needs |

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