Place a checkmark or the date when items are completed. For tests, record the score if preferred.

	Lesson	Explore	Practice 1	Mastery Check	Practice 2	Targeted Review	Lesson Test
1	Linear Programming						
2	Systems of Equations with Three Variables						
3	Operations with Polynomials						
4	Polynomial Identities						
5	Polynomial Long Division						
6	Synthetic Division						

Lesson Objectives

Check each objective that the student has mastered.

Lesson 1

- Determine the optimization, minimum or maximum, for a linear programming graph using the objective function.
- Given a system of linear inequalities, create a graph and use the objective function to optimize.
- Apply linear programming to word problems

Lesson 3

- Determine if an expression represents a polynomial.
- Add, subtract, and multiply to simplify polynomial expressions.
- □ Factor polynomial expressions.
- □ Factor the sum and difference of cubes.

Lesson 5

- Simplify expressions by dividing a polynomial by a monomial.
- Use long division to divide polynomials.
- Write the remainder of a polynomial expression as a rational expression.

Lesson 2

- Determine if given values represent a solution to a system of equations with three variables.
- Solve a system of linear equations with three variables.
- □ Write a system of linear equations with three variables.
- Evaluate word problems for linear equations with three variables.

Lesson 4

- Determine if a polynomial identity exists.
- Determine the value of an unknown to make a polynomial expression or equation true.

Lesson 6

- Use synthetic division with polynomial expressions.
- Evaluate polynomials using synthetic substitution.
- Use the Remainder Theorem to prove polynomial division is correct.

Place a checkmark or the date when items are completed. For tests, record the score if preferred.

	Lesson	Explore	Practice 1	Mastery Check	Practice 2	Targeted Review	Lesson Test
7	Multiplying and Dividing Rational Expressions						
8	Adding and Subtracting Rational Expressions						
9	Solving Rational Equations						
10	Graphing Reciprocal Functions						
	Unit 1 Test Date:			Score:			

Lesson Objectives

Check each objective that the student has mastered.

Lesson 7

- □ Name restrictions for a denominator.
- Simplify the product or quotient of rational expressions.

Lesson 8

- Determine the least common denominator (LCD) of a rational expression.
- Add and subtract rational expressions.
- Simplify complex fractions using addition, subtraction, multiplication, and division.
- Apply rational expressions to word problems such as geometric probabilities and efficiency ratios.

Lesson 10

- Determine the vertical and horizontal asymptotes for a rational function.
- Determine the transformations of a graph from the rational parent function.
- Graph/sketch a rational function in the form of: $y = \frac{a}{x-h} + k$
- □ State the domain and range for a rational function.

Lesson 9

- Determine the excluded values for the rational equation.
- □ Solve rational equations that are proportions.
- Solve rational equations by finding the least common denominator (LCD).
- Apply rational equations to word problems.