

| Power Standard: HS.MATH.ALG - Algebra | Algebra Standard | Students will be able to interpret, represent, create and solve algebraic expression: | | |
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| Performance Indicators | 1 = (DNM) | 2 = (PM) | 3 (=M) | 4 (=E) |
| a. Evaluate Variable Expressions | Identify like terms in a variable expression. | Simplify variable expressions by combining like terms. | Simplify complex variable expressions by combining like terms and distributing an integer. | Simplify complex variable expressions by combining like terms and distributing a variable term. |
| b. Solve Linear Equations | Solve one-step linear equations. | Solve two-step linear equations. | Solve complex linear equations with variables on both sides, demonstrating the ability to use the distributive property. | Solve literal equations with three or more variables, by isolating an indicated variable. |
| c. Solve Linear Inequalities | Graph linear inequalities on a number line. | Solve and graph linear inequalities involving two-steps. | Solve and graph compound inequalities. | Solve and graph absolute value inequalities. |
| d. Solve Linear Systems Algebraically | Determine if a given ordered pair is a solution to a linear system of equations. | Solve a linear system of equations algebraically, using the substitution or elimination method as indicated. | Solve a linear system of equations algebraically, by determining an appropriate method. | Write and solve a linear system of equations, given a real world example. |
| e. Simplify Polynomials and Factor | Add/subtract polynomials. | Multiply binomials and simplify. | Factor polynomials. | Factor and solve complex polynomials, involving at least three factors. |
| f. Solve Quadratic Equations | Identify quadratic equations in standard form. | Rewrite a quadratic equation into standard form. | Put a given quadratic equation into standard form and solve for real solutions by using the quadratic formula. | Write and solve a quadratic equations, given a real world example. |