

# WV CSO Curriculum Planning Tool

## Algebra I

| Standard               | Obj.#          | Objective   | Projected Date | Date Taught | Date Assessed | Date Re-Taught | Date Re-Assessed |
|------------------------|----------------|---|----------------|-------------|---------------|----------------|------------------|
| Standard 2:<br>Algebra | <b>A1.2.1</b>  | simplify and evaluate algebraic expressions using grouping symbols, order of operations and properties of real numbers with justification of steps.                                 |                |             |               |                |                  |
|                        | <b>A1.2.2</b>  | solve multi-step linear equations in one variable and apply skills toward solving practical problems.   |                |             |               |                |                  |
|                        | <b>A1.2.3</b>  | solve multi-step linear inequalities in one variable, interpret the results on a number line and apply the skills toward solving practical problems.                                |                |             |               |                |                  |
|                        | <b>A1.2.4</b>  | solve literal equations for a given variable and apply the skills toward solving practical problems.  |                |             |               |                |                  |
|                        | <b>A1.2.5</b>  | analyze a given set of data for the existence of a pattern numerically, algebraically and graphically; determine the domain and range; and determine if the relation is a function. |                |             |               |                |                  |
|                        | <b>A1.2.6</b>  | solve absolute value equations in one variable and interpret the results on a number line.  |                |             |               |                |                  |
|                        | <b>A1.2.7</b>  | use the laws of exponents to perform operations on expressions with integral exponents.   |                |             |               |                |                  |
|                        | <b>A1.2.8</b>  | determine the slope of a line given an equation of a line, the graph of a line and two points to be identified.   |                |             |               |                |                  |
|                        | <b>A1.2.9</b>  | graph linear equations using slope-intercept, point slope, and x- and y-intercepts.   |                |             |               |                |                  |
|                        | <b>A1.2.10</b> | write an equation of a line given a graph of a line, two points on the line, the slope and a point, and the slope and y-intercept.  |                |             |               |                |                  |
|                        | <b>A1.2.11</b> | solve systems of linear equations numerically and graphically, by the elimination method and by the substitution method.  |                |             |               |                |                  |
|                        | <b>A1.2.12</b> | add and subtract polynomials.   |                |             |               |                |                  |
|                        | <b>A1.2.13</b> | multiply and divide binomials by binomials or monomials.  |                |             |               |                |                  |
|                        | <b>A1.2.14</b> | factor polynomials by using appropriate methods.  |                |             |               |                |                  |
|                        | <b>A1.2.15</b> | estimate and simplify square roots into both exact and approximate forms.   |                |             |               |                |                  |
|                        | <b>A1.2.16</b> | solve quadratic equations by graphing, factoring and quadratic formula.   |                |             |               |                |                  |
|                        | <b>A1.2.17</b> | add, subtract, multiply and divide simple rational expressions.   |                |             |               |                |                  |
|                        | <b>A1.2.18</b> | collect, organize, interpret data and predict outcomes using the mean, mode, median, and range.   |                |             |               |                |                  |
|                        | <b>A1.2.19</b> | perform a linear regression and use the results to predict specific values of a variable, and identify the equation for the line of regression.                                     |                |             |               |                |                  |
|                        | <b>A1.2.20</b> | predict the outcomes of simple events using the rules of probability.   |                |             |               |                |                  |
|                        | <b>A1.2.21</b> | use process (flow) charts and histograms, scatter diagrams and normal distribution curves.  |                |             |               |                |                  |