**Cassville High School**

**Learning Targets**

Course Name: Algebra IB

Mark which semester the ELO is taught in. In the “Mastery Level” column, please place the expected mastery level for the ELO. This should be a well thought out % and evaluated annually when your data analysis has been completed.

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| **Semester** | **Learning Targets** | **Mastery****Level** |
|  1 | * Solve inequalities using addition, subtraction, multiplication, and division
* Solve multi-step and compound inequalities
* Solve absolute value equations and inequalities
* Graph inequalities
 |  75% |
|  1 | * Solve systems of equations and inequalities algebraically using substitution and elimination
* Solve systems of equations and inequalities by graphing
 |  70% |
|  1 | * Find products and quotients of monomials
* Express numbers in scientific notation
* Add, subtract, multiply, and divide polynomials
* Find special products of binomials
 |  70% |
|  2 | * Determine the prime factorization of integers and monomials
* Find the greatest common factor for sets of integers and monomials
* Factor polynomials
* Find the difference of squares and find perfect squares
 |  70% |
|  2 | * Solve and graph quadratic functions
* Solve and graph exponential functions
* Solve by completing the square
 |  70% |
|  2 | * Simplify and perform operations with radical expressions
* Solve radical equations
* Use Pythagorean Theorem and Distance Formula
* Use similar triangles and trigonometric ratios
 |  70% |
|  2 | * Add, subtract, multiply and divide rational expressions
* Solve Equations involving rational expressions
 |  65% |