**Cassville High School**

**Learning Targets**

Course Name: Geometry

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.

|  |  |  |
| --- | --- | --- |
| **Semester** | **Learning Targets** | **Mastery****Level** |
|  1 | * Identify and model points, lines, and planes
* Identify linear and coplanar points, lines, and planes
* Identify intersecting lines and planes
 |  80% |
|  1 | * Find the midpoint of a segment on a number line and coordinate plane
* Find the distance between two points on a number line and a coordinate plane
 |  70% |
|  1 | * Measure and classify angles
* Identify and use congruent angles and their bisector
* Identify and use adjacent, vertical, supplementary, complementary, and linear pairs of angles
 |  70% |
|  1 | * Use inductive and deductive reasoning to establish geometric and algebraic validity by constructing truth tables and conditionals
* Vocabulary
 |  70% |
|  1 | * Formulate informal and formal proofs using properties of equality and given theorems, postulates, and definitions applied to algebraic and geometric statements
 |  70% |
|  1 | * Identify angle relationships that occur with parallel and perpendicular lines
* Use slope to write an equation of a line
* Find the distance between a point and a line or between two parallel lines
 |  80% |
|  1 | * Classify triangles
* Identify corresponding parts of triangles
* Evaluate congruency using SSS, ASA, SAS, AAS
* Use properties of isosceles and equilateral triangles
* Construct triangle proofs
 |  75% |

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| **Semester** | **Learning Targets** | **Mastery****Level** |
|  2 | * Identify similar polygons
* Use ratios and proportions to solve problems
* Recognize and use altitudes, angle bisectors, and medians of similar triangles to solve problems
 |  70% |
|  2 | * Solve problems using Pythagorean Theorem
* Use trigonometric ratios to solve right triangle problems
* Use law of sines and cosines to solve triangle problems
* Use properties of special right triangles
 |  70% |
|   2 | * Find the sum of interior and exterior angles of a polygon
* Recognize and apply properties of parallelograms, rectangles, rhombi, squares, and trapezoids
* Formulate proofs dealing with polygons
 |  70% |
|  2 | * Name, draw, and recognize figures that have been reflected, translated, rotated, and dilated
* Solids
* Use matrices to perform transformations
 |  65% |
|  2 | * Identify and use parts of a circle
* Find arc and angle measure of a circle
* Write equations of circles
 |  70% |
|  2 | * Find the area, volume, and surface area of regular and irregular polygons
 |  65% |