**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.

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| --- | --- | --- |
| **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% |