**CCHS Mathematics I**

**Congruence, Construction, and Proof**

**Module 6 Assessment Study Guide**

Define the following Mathematical Terms

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| --- | --- | --- | --- |
| slope | Perpendicular lines | Parallel Lines | Inductive Reasoning |
| Congruence | Construction | Low Paragraph Proof | Deductive Reasoning |
| Rigid-motion Transformations | Translations | Reflections | Rotations |
| Pre-image, Image | Rotational symmetry | Lines of symmetry | Quadrilateral |
| Recursive Function Form | Open circle | Discrete Function | Inscribed polygon |
| Transformation Sequence | ASA,SAS | Regular polygon | SSS |
| Inconsistent system | Dependent system | System of Linear Equations | Compass/Straight edge construction |

Understand the following Tasks

1. Describe a rotation of a polygon around a point on a graph for 90, 180, and 270 degrees.
2. Describe a reflection of a polygon over the x-axis and y-axis.
3. Know the names of regular polygons and the number of sides for each: triangle, rectangle, square, pentagon, hexagon, octagon, n-gon.
4. Know the different ways of identifying congruent triangles using SAS, SS, SAS.
5. Determine the number of diagonals in a regular polygon.
6. Construct a square.
7. Inscribe a square in a circle.
8. Describe a transformation sequence.
9. Construct a Rhombus.
10. Construct congruent angles.
11. Construct congruent segments.