**CCHS Mathematics I**

**Connecting Algebra and Geometry**

**Module 7 Assessment Study Guide**

Define the following Mathematical Terms

|  |  |  |  |
| --- | --- | --- | --- |
| Horizontal translation | Vertical translation | Scale factor | Translation equation |
| Quadratic Equation | Parent Function | Table of Values | Function Notation |
| Slope | Distance Formula | Translation Form | Slope Intercept Form |
| Pre-image, Image | Rotational symmetry | Lines of symmetry | Quadrilateral |
| Additive identity of a matrix | Additive Inverse of a matrix | Multiplicative Identity of a matrix | Multiplicative Inverse of a matrix |
| Determinant of a matrix | vectors | Vector magnitude | System of equations using matrix  |
| Inconsistent system | Dependent system | System of Linear Equations | Compass/Straight edge construction |

Understand the following Tasks

1. Identify the type of translation by looking at the equation.
2. Add and subtract translation functions.
3. Identify the graph from a function translation form.
4. Match a table of values to a translation function for. [Example: f(x)=g(x) + 2) ]
5. Determine the slope of a function given two points.
6. Write the translation form equation.
7. Write the slope-Intercept Form Equation.
8. Determine the additive identity of a matrix.
9. Determine the additive inverse of a matrix.
10. Determine the multiplicative inverse of a matrix.
11. Determine the determinant of a matrix.
12. Understand vector addition.
13. Understand the magnitude of a vector.
14. Identify the graph of the addition of two vectors.
15. Solve a system of linear equations using the inverse Matrix to find the solutions.