**CCHS Mathematics I**

**Module 3 Assessment Study Guide**

Define the following Mathematical Terms

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| Sequence | Diagram | Graph 2x + 3y = 12 | Inductive Reasoning |
| Arithmetic Sequence | Table of Values | Elimination Method | Deductive Reasoning |
| Geometric Sequence | Scatter Plot | Use Matrix to solve system of equations | Pattern |
| Explicit Function Form | Continuous function | Dis-continuous function | Sequence term  |
| Recursive Function Form | Graph y= mx+ b | Discrete Function | Infinite Solutions |

Understand the following Tasks

1. Given an arithmetic sequence match it to a graph, explicit function, or recursive function.
2. Given a geometric sequence match it to a graph, explicit function or recursive function.
3. Given a pattern determine the next terms in a sequence.
4. Given a sequence or pattern determine the nth term in a sequence.
5. Given an explicit function create a table of values beginning with f(1).
6. Given a table of values write the explicit and recursive functions
7. Compare and contrast explicit and recursive functions.