**CCHS Mathematics III**

**Module I Assessment Study Guide**

Define the following Mathematical Terms

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| Function | Diagram | Graph 2x + 3y = 12 | Inductive Reasoning |
| Function Map Notation | Table of Values | Elimination Method | Deductive Reasoning |
| Exponential Function | Inverse Functions | Use Matrix to solve system of equations | Arithmetic Sequence |
| Logarithmic form | Composite Functions | Dis-continuous function | Logarithmic Operation Rules |
| Radical Expression | Graph y= mx+ b | Discrete Function | Infinite Solutions |

Understand the following Tasks

1. Determine if a set of points (x, y) in a table is a function
2. Determine if a function map notation for a set of points is a function.
3. Determine the next steps to solve an equation for a variable by matching.
4. Solve composite functions such as f (a+b), f (g(x)).
5. Identify functions that are inverses of each other?
6. Rewrite an equation in exponential form into logarithmic form.
7. Rewrite an equation in logarithmic form to exponential form.
8. Describe the first step in solving radical expressions in one variable.
9. Interpret and graph of a function and its inverse.
10. Solve exponential equations of the form 7x =243
11. Solve exponential functions of the form 152x+1 = 153
12. Complete the definition of Logarithm.
13. Simply the product of exponents.
14. Find the inverse of an exponential function.
15. Simplify radical expressions.
16. Identify inverse functions on a graph.
17. Match equivalent equations.
18. Solve composite functions.