**CCHS Mathematics I**

**Features of Functions**

**Module 5 Assessment Study Guide**

Define the following Mathematical Terms

|  |  |  |  |
| --- | --- | --- | --- |
| Discrete | Continuous | Close circle | Inductive Reasoning |
| Arithmetic Sequence | Table of Values | Exponential  | Deductive Reasoning |
| Geometric Sequence | Linear | Decreasing | Increasing |
| Explicit Function Form | Continuous function | Dis-continuous function | Domain  |
| Recursive Function Form | Open circle | Discrete Function | Range |
| Interval notation | Set notation | maximum | minimum |

Understand the following Tasks

1. Use inductive reasoning to determine if a function is discrete, continuous, neither, or not enough information.
2. Describe features of a function using mathematical terms when given a graph.
3. Write out the domain and range using set notation
4. Solve f(x) for different values of x.
5. Identify the maximum point on a graph.
6. Identify the minimum point on a graph.
7. Determine if an interval is increasing or decreasing.
8. Determine when to use an open circle or closed circle on a graph.
9. Identify set notation.
10. Identify interval notation.
11. Identify a discrete function.
12. Identify a continuous function.