

**BEMIDJI AREA SCHOOLS**  
Outcomes in Mathematics – Applied Mathematics

**Algebra Topics**

Students will understand functions given to them by means of:

- Formulas
- Graphs
- Tables
- Words

Students will understand Graphical and Tabular Analysis using:

- Tables and Trends
- Graphs
- Solving Linear Equations

Students will understand Linear Functions using:

- The Geometry of lines (slope/intercept)
- Modeling data with linear functions
- Direct variation
- Linear regression

Students will understand other common functions using:

- Multiple representations
- Modeling data
- Graphical solutions to systems of equations

**Technology Topics**

Students will understand the following:

- Syntax and Semantics
- Understanding Processes
- The notion of a “variable” in computing
- Formulas and expressions
- Making decisions
- Using functions

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**Statistics Topics**

Students will understand the following:

- Collecting and displaying data in tabular and graphical format
- Types of data
- Measures of central tendency
- Measures of dispersion
- Shapes of distributions
- Correlation and association
- Brief introduction to linear regression