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### Applied Math

#### Guiding Principle

*A student at the proficient level in Applied Math will be able to demonstrate understanding of high school mathematics by solving problems, reasoning, communicating, representing, and making connections based on the following indicators:*

Benchmark/Topics	As a result of studying Applied Math, I will be able to:
(1) Number Operations <ul style="list-style-type: none"> <li>• Decimals</li> <li>• Fractions</li> <li>• Integers</li> <li>• Percents</li> <li>• Order of Operations</li> <li>• Rounding</li> </ul>	2.1.1 Demonstrate proficiency of number operations using <ul style="list-style-type: none"> <li><input type="checkbox"/> decimals</li> <li><input type="checkbox"/> fractions</li> <li><input type="checkbox"/> integers</li> <li><input type="checkbox"/> percents</li> <li><input type="checkbox"/> order of operations</li> <li><input type="checkbox"/> rounding</li> </ul>
(2) Basic Statistics <ul style="list-style-type: none"> <li>• Mean</li> <li>• Median</li> <li>• Mode</li> <li>• Range</li> <li>• Interpreting Graphs</li> <li>• Scatter Plots</li> <li>• Bar Graphs</li> <li>• Pie Graphs</li> <li>• Box and Whisker Plots</li> </ul>	6.2.2 Demonstrate knowledge of basic statistics when I can <ul style="list-style-type: none"> <li><input type="checkbox"/> Calculate or identify the               <ul style="list-style-type: none"> <li><input type="checkbox"/> mean</li> <li><input type="checkbox"/> median</li> <li><input type="checkbox"/> mode</li> <li><input type="checkbox"/> range</li> </ul> </li> <li><input type="checkbox"/> Interpret and draw the following graphs:               <ul style="list-style-type: none"> <li><input type="checkbox"/> scatter plots</li> <li><input type="checkbox"/> bar graphs</li> <li><input type="checkbox"/> pie graphs</li> <li><input type="checkbox"/> box and whisker plots</li> </ul> </li> </ul>
(3) Metric System <ul style="list-style-type: none"> <li>• Estimation</li> <li>• Perimeter</li> <li>• Area</li> <li>• Capacity</li> <li>• Conversions</li> </ul>	5.4.3 Show understanding of the metric system when I can <ul style="list-style-type: none"> <li><input type="checkbox"/> apply an appropriate estimate for a given situation</li> <li><input type="checkbox"/> calculate perimeter with correct units</li> <li><input type="checkbox"/> calculate area with correct units</li> <li><input type="checkbox"/> calculate volume with correct units</li> <li><input type="checkbox"/> convert measurements within the metric system</li> <li><input type="checkbox"/> convert measurements from English to metric and vice versa</li> </ul>
(4) Income & Banking <ul style="list-style-type: none"> <li>• Gross pay</li> <li>• Net pay</li> <li>• Writing checks</li> <li>• Reconciling bank statements</li> </ul>	1.1.4 Show understanding of income and banking when I can <ul style="list-style-type: none"> <li><input type="checkbox"/> calculate my gross pay based upon hourly wage, overtime pay, salary and/or commission</li> <li><input type="checkbox"/> calculate my net pay based upon my gross pay and various deductions</li> <li><input type="checkbox"/> write checks and maintain a check register</li> <li><input type="checkbox"/> reconcile my bank statement</li> </ul>
(5) Taxes & Insurance <ul style="list-style-type: none"> <li>• Property Tax</li> <li>• Sales Tax</li> <li>• FICA</li> </ul>	1.1.5 Demonstrate understanding of taxes and insurance when I can <ul style="list-style-type: none"> <li><input type="checkbox"/> assess the following types of taxes:               <ul style="list-style-type: none"> <li><input type="checkbox"/> property</li> </ul> </li> </ul>

<ul style="list-style-type: none"> <li>• Federal Income Tax</li> <li>• State Tax</li> <li>• Auto Insurance</li> <li>• Life Insurance</li> <li>• Property Insurance</li> <li>• Health Insurance</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> sales</li> <li><input type="checkbox"/> FICA</li> <li><input type="checkbox"/> federal income</li> <li><input type="checkbox"/> state income</li> <li><input type="checkbox"/> determine and select the best insurance policies including: <ul style="list-style-type: none"> <li><input type="checkbox"/> auto</li> <li><input type="checkbox"/> life</li> <li><input type="checkbox"/> property</li> <li><input type="checkbox"/> health</li> </ul> </li> </ul>
<p>(6) Major Purchases</p> <ul style="list-style-type: none"> <li>• Home</li> <li>• Vehicle</li> </ul>	<p>1.1.6 Plan the best use of my money over time when I can</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> calculate and compare home mortgages with various time payoffs and interest rates as compared to renting</li> <li><input type="checkbox"/> calculate and compare vehicle payments with various time payoffs, interest rates and depreciation values</li> </ul>
<p>(7) Money Management</p> <ul style="list-style-type: none"> <li>• Budgets</li> <li>• Sale Prices</li> <li>• Unit Prices</li> <li>• Credit Cards</li> </ul>	<p>1.1.7 Demonstrate understanding of money management when I can</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> create a budget that fits my income and expenses</li> <li><input type="checkbox"/> calculate sale prices using percents of change</li> <li><input type="checkbox"/> determine the better buy using unit prices</li> <li><input type="checkbox"/> assess how finance charges are computed <ul style="list-style-type: none"> <li><input type="checkbox"/> average daily balance method</li> <li><input type="checkbox"/> previous balance method</li> </ul> </li> </ul>

<p>(8) Investments</p> <ul style="list-style-type: none"><li>• Simple Interest</li><li>• Compound Interest</li><li>• Strategies</li></ul>	<p>1.1.8 Show an understanding of interest rates over time when I can</p> <ul style="list-style-type: none"><li><input type="checkbox"/> compute simple interest</li><li><input type="checkbox"/> compute compound interest</li><li><input type="checkbox"/> compare investment strategies<ul style="list-style-type: none"><li><input type="checkbox"/> stocks</li><li><input type="checkbox"/> bonds</li><li><input type="checkbox"/> mutual funds</li><li><input type="checkbox"/> savings accounts</li><li><input type="checkbox"/> certificates of deposit</li><li><input type="checkbox"/> IRA's</li></ul></li></ul>
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\*Benchmark Key – State Content Standard . State Benchmark . District Benchmark