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| <p><b>Number and Quantity:</b></p>  | <p><b>Algebra: Seeing Structure in Expressions</b></p>  |
| <ul style="list-style-type: none"> <li>Develop an understanding of basic operations, equivalent representations, and properties of the real number system.</li> </ul>   | <ul style="list-style-type: none"> <li>Create equations or inequalities that model physical situations.</li> </ul>  |
| <p><b>Functions: Interpreting Functions</b></p>   | <p><b>Geometry/Trigonometry</b></p>   |
| <ul style="list-style-type: none"> <li>Develop knowledge and understanding of the concept of functions as they use, analyze, represent, and interpret functions and their applications.</li> </ul>  | <ul style="list-style-type: none"> <li>Solve application problems by calculating area or surface area in two-dimensional object or volume in three-dimensional objects.</li> <li>Understand and apply the Pythagorean Theorem for solving real-world problems. (e.g. checking accuracy on gate construction, conduit bending).</li> </ul> |
| <p><b>Modeling</b></p>  | <p><b>Statistics - Interpreting Categorical &amp; Quantitative Data</b></p>   |
| <ul style="list-style-type: none"> <li>Create and use two- and three-dimensional representations of authentic situations in problem solving.</li> <li>Make inferences and justify conclusions from sample surveys, experiments, and observational studies.</li> </ul> | <ul style="list-style-type: none"> <li>Analyze and interpret tables, charts and graphs. (e.g. interpret a body mass index (BMI) chart).</li> <li>Distinguish between correlation and causation.</li> </ul>  |
| <p><b>Finance Mathematics</b></p>   |   |
| <ul style="list-style-type: none"> <li>Determine, represent and analyze mathematical models for personal finance.</li> </ul>  |   |