

**Optimum Resource Inc.'s MiddleWare Software**

Michigan Standards - Sixth Grade Mathematics	Math Word Problems
<b>Patterns, Relationships and Functions</b>	
<i>Student recognize similarities &amp; generalized patterns, use patterns to create models &amp; make predictions, describe the nature of patterns &amp; relationships, &amp; construct representations of mathematical relationships</i>	✓
<b>Variability and Change</b>	
<i>Students describe the relationships among variables, predict what will happen to one variable as another variable is changed, &amp; compare patterns of change</i>	✓
<b>GEOMETRY AND MEASUREMENT</b>	
<b>Shapes &amp; Shape Relationships</b>	
<i>Students develop spatial sense, identify characteristics &amp; define shapes, identify properties &amp; describe relationships among shapes</i>	
<b>Position</b>	
<i>Students identify locations of objects, identify location relative to other objects, &amp; describe the effects transformations on an object</i>	
<b>Measurement</b>	
<i>Students compare attributes of two objects, or of one object with a standard (unit), &amp; analyze situations to determine what measurement(s) should be made &amp; to what level of precision</i>	

**Optimum Resource Inc.'s MiddleWare Software**

Michigan Standards - Sixth Grade Mathematics	Math Word Problems
<b>DATA ANALYSIS AND STATISTICS</b>	
<b>Collection, Organization &amp; Presentation of Data</b>	
<i>Students collect &amp; explore data, organize data into a useful form, &amp; develop skill in representing &amp; reading data displayed in different formats</i>	
<b>Description &amp; Interpretation</b>	
<i>Students examine data &amp; describe characteristics of a distribution, relate data to the situation from which they arose, &amp; use data to answer questions convincingly and persuasively</i>	
<b>Inference and Prediction</b>	
<i>Students draw defensible inferences about unknown outcomes, make predictions, &amp; identify the degree of confidence they have in their predictions</i>	
<b>NUMBER SENSE AND NUMERATION</b>	
<b>Concepts and Properties of Numbers</b>	
<i>Students experience counting and measuring activities to develop intuitive sense about numbers, develop understanding about properties of numbers, understand the need for &amp; existence of different sets of numbers, &amp; investigate properties of special numbers</i>	✓

**Optimum Resource Inc.'s MiddleWare Software**

Michigan Standards - Sixth Grade Mathematics	Math Word Problems
<b>Representation and Uses of Numbers</b>	
<i>Students recognize that numbers are used in different ways such as counting, measuring, ordering and estimating, understand &amp; produce multiple representations of a number, &amp; translate among equivalent representations</i>	✓
<b>Number Relationships</b>	
<i>Students investigate relationships such as equality, inequality, inverses, factors &amp; multiples, &amp; represent &amp; compare very large &amp; very small numbers</i>	
<b>Operations and Their Properties</b>	
<i>Students understand &amp; use various types of operations to solve problems</i>	✓
<b>Algebraic and Analytic Thinking</b> <i>Students analyze problems to determine an appropriate process for solution, &amp; use algebraic notations to model or represent problems</i>	
<b>PROBABILITY AND DISCRETE MATHEMATICS</b>	
<b>Probability</b>	
<i>Students develop an understanding of the notion of certainty &amp; of probability as a measure of the degree of likelihood that can be assigned to a given event based on the knowledge available, &amp; make critical judgments about claims that are made in probabilistic situations</i>	
<i>Students investigate practice situations such as scheduling, routing, sequencing, networking, organizing &amp; classifying, and analyze ideas like recurrence relations, inductions, iteration</i>	