

# Year At A Glance

## 7<sup>th</sup> Grade Pre-AP Mathematics

1 <sup>st</sup> Six Weeks	2 <sup>nd</sup> Six Weeks	3 <sup>rd</sup> Six Weeks
<ul style="list-style-type: none"> <li>➤ Graphing points on the coordinate plane</li> <li>➤ Translations and Reflections only</li> <li>➤ Compare and order rational numbers with and without technology</li> <li>➤ Scientific Notation</li> <li>➤ Select appropriate operations to solve problems with rational numbers</li> <li>➤ Use appropriate operations to solve problems with rational numbers</li> <li>➤ Check for Reasonableness</li> <li>➤ Approximate values of irrational numbers</li> <li>➤ Model Pythagorean Theorem</li> <li>➤ Use Pythagorean Theorem</li> <li>➤ Problem Solving</li> </ul>	<ul style="list-style-type: none"> <li>➤ Use Pythagorean Theorem</li> <li>➤ Select and use rational problems</li> <li>➤ Multiplication by a constant factor (constant of proportionality)</li> <li>➤ Estimate and find solutions to application problems in <u>proportional</u> relationships</li> <li>➤ Select and use rational problems</li> <li>➤ Multiplication by a constant factor (constant of proportionality)</li> <li>➤ Compare and Contrast proportional and non-proportional rational numbers</li> <li>➤ Estimate and find solutions to application problems in proportional relationships</li> <li>➤ Problem Solving</li> </ul>	<ul style="list-style-type: none"> <li>➤ Estimate and find solutions to application problems in <u>percent</u> relationships</li> <li>➤ Composite Figures</li> <li>➤ Lateral &amp; Total Surface Area</li> <li>➤ Changing dimensions with Perimeter in Area</li> <li>➤ Problem Solving</li> </ul>
➤ 4 <sup>th</sup> Six Weeks	5 <sup>th</sup> Six Weeks	➤ 6 <sup>th</sup> Six Weeks
<ul style="list-style-type: none"> <li>➤ Connect Models to volume</li> <li>➤ Volume</li> <li>➤ Change in dimensions/volume</li> <li>➤ Generate similar-dilations</li> <li>➤ Dilations</li> <li>➤ Shadows/similar figures find measures</li> <li>➤ Find Probability of Independent &amp; Dependent Events</li> <li>➤ Use Theoretical &amp; Experimental Probability</li> <li>➤ Select and use models to simulate events</li> <li>➤ Use variability-central tendency to describe</li> <li>➤ Problem Solving</li> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>➤ Select and use appropriate representations of graphs</li> <li>➤ Recognize misuses of graphical and numerical info</li> <li>➤ Evaluate methods of sampling(making inferences)</li> <li>➤ Draw 3-D figures from different perspectives</li> <li>➤ All operations with integers</li> <li>➤ Solving Equations</li> <li>➤ Problem Solving</li> </ul>	<ul style="list-style-type: none"> <li>➤ Commutative, Associative, and Distributive Properties</li> <li>➤ Simplifying Algebraic Expressions.</li> <li>➤ Functions</li> <li>➤ Transform and Solve Equations</li> <li>➤ Problem Solving</li> </ul>