

Year At A Glance

8th Grade Mathematics

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