## BFMS $8^{\text {th }}$ Grade Math Scope and Sequence

| Unit 1 <br> Trimester 1 | Unit 2 <br> Trimester $1 / 2$ | Unit 3 <br> Trimester 2 | Unit 4 <br> Trimester 3 | Unit 5 <br> Trimester 3 |
| :---: | :---: | :---: | :---: | :---: |
| Integer Exponents, Scientific Notation \& Roots | Functions \& Linear Equations | Examples of Expressions \& Equations with Systems of Equations and Pythagorean Theorem | Congruence and Similarity | Introduction to Statistics and Probability |
| approx. 35 Days | approx. 45 Days | approx. 40 Days | approx. 40 Days | as time allows approx. $20 \text { Days }$ |
| Simplify numeric and algebraic expressions w/ Integer Exponents (Properties/Laws of Exponents) | What it means to be a "function" | Solving 1-step, 2-step, multi-step one variable linear equations w/ 1 solution, infinite sols. and no sols. w/ algebra | Experiment w/ the properties of rotations, reflections \& translations | Construct and Interpret scatter plots of 2 variable linear and non-linear data for patterns of positive \& negative association, outliers, clusters etc. |
| Use Scientific Notation to rewrite very large and very small numbers | Comparing Functions in a variety of representations(table, graph, list of pts., equation etc.) to see their diffs./similarities in for example, Rate of change, which is larger etc. | Solve Systems of Linear equations | Use a sequence of rotations, reflections \&/or translations to show 2 figures are congruent aka exactly the same size and shape | Find an equation of the Line of Best Fit for a linear trend scatter plot and use it as a model to make predictions for other unspecified data in the trend |
| Perform operations w/ Sci. Notation | What is a linear function and what is non-linear | Explore the proof of the Pythagorean Theorem | Describe what happens to 2-D figures using its coordinates/points when it is dilated, translated, | Interpret, in context, the slope and y-intercept of a Line of Best Fit model for a scatter plot of 2 variable data |

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$\left.\begin{array}{|c|c|c|c|c|}\hline & & & \text { rotated, or reflected } & \\ \hline \begin{array}{c}\text { Evaluate square } \\ \text { roots and cube roots } \\ \text { of expressions \& } \\ \text { rational and irrational } \\ \text { \#s }\end{array} & \begin{array}{c}\text { Construct/Write the } \\ \text { equation of a linear } \\ \text { relationship, y=mx+b, } \\ \text { from a variety of } \\ \text { representations(table, } \\ \text { graph, words, etc.) }\end{array} & \begin{array}{c}\text { Apply the Pythagorean } \\ \text { Theorem to find missing } \\ \text { sides of right triangles. }\end{array} & \begin{array}{c}\text { Use a sequence of } \\ \text { rotations, reflections, } \\ \text { translations \&/or } \\ \text { dilations to show 2 }\end{array} & \begin{array}{c}\text { Investigate patterns of } \\ \text { association between } \\ \text { categorical data with }\end{array} \\ \text { frequencies noted in a 2-way } \\ \text { table to find if there is } \\ \text { evidence of association } \\ \text { between the variables }\end{array}\right]$

