Tesseract School
*Engaging Minds. Inspiring Dreams.*

| **Curriculum Map – Semester One**<br>**Subject: MATH** | | | **Grade Level:**<br>**SIXTH GRADE** |
|---|---|---|---|
| **September** | **October** | **November** | **December** |
| A. Exponents<br>•Exponential and Standard Forms<br>•Volume<br>•Face, Edge, Vertex<br>B. Problem Solving<br>•Four-step approach<br>•Strategies<br>C. Expressions<br>•Order of Operations<br>D. Data Displays<br>•Bar Graphs<br>•Line Graphs<br>•Frequency Tables<br>E. Probability<br>•Experimental<br>•Theoretical<br>•Outcome<br>•Event<br>F. Sequences<br>•Term<br>•Term Number<br>•Variable<br>•Equation | A. Integers and Coordinates<br>•Number line<br>•Positive and negative integers<br>•Inequality<br>•Opposite and absolute value<br>B. Angles<br>•Angle parts<br>•Angle degrees<br>•Angle types | A. Integer Addition and Subtraction<br>•Properties of Addition<br>•Models of Integer Addition and Subtraction | A. Function Models<br>•Table functions<br>•Equation functions<br>•Expression with variables<br>B. Equations<br>•Addition and Subtraction Equations<br>•Models of addition equations and their solutions |

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| **Curriculum Map – Semester Two**<br>**Subject: MATH** | | | | **Grade Level:**<br>**SIXTH GRADE** |
|---|---|---|---|---|
| **January** | **February** | **March** | **April** | **May** |
| A. Factors and Multiples<br>•Prime factorization<br>•Skip counting<br>•Divisibility<br>•Prime and Composite<br>B. Fractions<br>•Equivalency<br>•Comparison<br>•Simplest Form | A. Mixed Numbers<br>•Fraction comparisons<br>•Addition and subtraction<br>B. Decimals and Place Value<br>•Decimals as fractions<br>C. Metric Units of Length | A. Circumference<br>•Zoetropes<br>B. Fractions<br>•Multiplication and Division<br>C. Decimals<br>•Multiplication and Division<br>•Repeating Decimals<br>D. Math of Motion<br>•Rotations and symmetry<br>•Reflection and symmetry<br>•Translations<br>•Size and shape changes | A. Ratios and Data Displays<br>•Ratios and proportions<br>•Stem-and-Leaf Plots<br>•Histograms<br>B. Cross Products<br>C. Percent<br>•Estimation<br>•Calculation<br>•Parts or wholes<br>D. Percent and Probability<br>•Fractions, Decimals, and Percents<br>•Predictions with percents | A. Counting Problems<br>•Item arrangements<br>•Tree Diagrams<br>•The Counting Principle<br>•Permutations<br>•Combinations<br>B. Tessellations |