**8th Grade Pacing Guide**

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| **Unit** | **Topics Covered** | **Time** | **Materials** | **Assessment** |
| Number System | Rational vs. Irrational 8.NS.A.1  Square Roots 8.NS.A.2  Estimating Square Roots 8.NS.A.2  Estimating Square Roots Word Problems 8.NS.A.2 | August-September  8 Days | Flipcharts  Rational/Irrational Activity  Number Line Activity  Number Line Project  Square Root Timed Tests | Quiz  Interim Assessment 1 |
| Solving Equations | 1-step equations (6th Grade Review)  2-step equations (7th Grade Review)  Multi-step equations 8.EE.C.7.B  Variables on both sides 8.EE.C.7.B  Combining like terms 8.EE.C.7.B  Distributive property 8.EE.C.7.B | September  9 days | Entrance Ticket  Flipcharts  Scavenger Hunt | Quiz  Interim Assessment 1 |
| Volume  8.G.C.9 | Spheres  Cones  Cylinders  Word Problems | September  5 days | Flipcharts  Rice  3D Figures | Quiz  Interim Assessment 1 |
| Pythagorean Theorem | Converse 8.G.B.6  Word Problems 8.G.B.7  Distance-Coordinate Plane 8.G.B.8  Perimeter-Coordinate Plane 8.G.B.8 | September-October  7 days | Looking for Pythagoras  Flipcharts | Quiz  Interim Assessment 1  Interim Assessment 2 |
| Slope and Y-intercept | Completing a table 8.F.B.4  Slope-intercept form 8.F.B.4  Graphing a line 8.F.B.4  Finding slope from a table, 2 points and a graph 8.F.B.4  Finding y-intercept from a table, 2 points, and a graph 8.F.B.4  Using slope and y-intercept in context 8.F.B.4  Comparing Slope and Y-intercept 8.F.A.2 | October-November  18 days | Flipcharts  Exit Tickets | Unit Test  Interim Assessment 2 |
| Functions | Standard Form 8.F.A.3  Linear/Non-linear 8.F.A.3  Domain and Range 8.F.A.1  Determining if tables and graphs are functions 8.F.A.1 | November  4 days | Flipcharts | Interim Assessment 2 |

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| Graphing Stories | Graphing Stories 8.F.B.5 | November-December  3 Days | Flipcharts  Project | Project  Interim Assessment 2 |
| Systems | No solution, one solution, infinitely many solutions 8.EE.C.7.A  Systems with substitution 8.EE.C.8.B | December  4 days | Flipcharts | Quiz  Interim Assessment 3 |
| Transformations  8.G.A.1  8.G.A.2  8.G.A.3  8.G.A.4 | Coordinate Plane Review  Translations  Reflections  Rotations  Dilations | January  10 days | Flipcharts  Project | Unit Test  Interim Assessment 3 |
| Triangles/Transversals | Angle Terms (Review)  Transversals 8.G.A.5  Interior Angles-Triangle (Review)  Exterior Angles-Triangle 8.G.A.5 | January  10 days | Flipcharts | Quiz  Interim Assessment 3 |
| Systems Word Problems | Review basic systems 8.EE.C.8.B  Translating words to math (Review)  Word Problems 8.EE.C.8.C | February  7 days | Flipcharts  Activity | Unit Test  Mock EOG |
| Scatterplots | 2 way tables 8.SP.A.4  Correlation 8.SP.A.1  Scatterplots 8.SP.A.1  Line of best fit 8.SP.A.2 8.SP.A.3 | February-March  11 days | Flipcharts  Age Guess  2 way table project | Unit Test  Mock EOG |
| Exponents | Scientific Notation 8.EE.A.3  Scientific Notation Word Problems 8.EE.A.4  Exponent Rules 8.EE.A.1 | March  10 days | Flipcharts  Foldable | Quiz  Mock EOG |
| Repeating Decimals | Pattern for the ninths and ninety-ninths 8.NS.A.1  All operations 8.NS.A.1 | Anytime during school year  2 days | Flipchart  Fraction chart | Mock EOG |
| Square Root/Cube Root Equations | Area word problems 8.EE.A.2  Volume word problems 8.EE.A.2 | Anytime during school year  1 day | Flipchart  Warm-Ups | Mock EOG |