**8th Grade Pacing Guide**

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| **Unit** | **Topics Covered** | **Time** | **Materials** | **Assessment** |
| Number System | Rational vs. Irrational 8.NS.A.1Square Roots 8.NS.A.2Estimating Square Roots 8.NS.A.2Estimating Square Roots Word Problems 8.NS.A.2 | August-September8 Days | FlipchartsRational/Irrational ActivityNumber Line ActivityNumber Line ProjectSquare Root Timed Tests | QuizInterim Assessment 1 |
| Solving Equations | 1-step equations (6th Grade Review)2-step equations (7th Grade Review)Multi-step equations 8.EE.C.7.BVariables on both sides 8.EE.C.7.BCombining like terms 8.EE.C.7.BDistributive property 8.EE.C.7.B | September9 days | Entrance TicketFlipchartsScavenger Hunt | QuizInterim Assessment 1 |
| Volume8.G.C.9 | SpheresConesCylindersWord Problems | September 5 days | FlipchartsRice3D Figures | QuizInterim Assessment 1 |
| Pythagorean Theorem | Converse 8.G.B.6Word Problems 8.G.B.7Distance-Coordinate Plane 8.G.B.8Perimeter-Coordinate Plane 8.G.B.8 | September-October7 days | Looking for PythagorasFlipcharts | QuizInterim Assessment 1Interim Assessment 2 |
| Slope and Y-intercept | Completing a table 8.F.B.4Slope-intercept form 8.F.B.4Graphing a line 8.F.B.4Finding slope from a table, 2 points and a graph 8.F.B.4Finding y-intercept from a table, 2 points, and a graph 8.F.B.4 Using slope and y-intercept in context 8.F.B.4Comparing Slope and Y-intercept 8.F.A.2 | October-November18 days | FlipchartsExit Tickets | Unit TestInterim Assessment 2 |
| Functions | Standard Form 8.F.A.3Linear/Non-linear 8.F.A.3Domain and Range 8.F.A.1Determining if tables and graphs are functions 8.F.A.1 | November 4 days | Flipcharts | Interim Assessment 2 |

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| **Unit** | **Topics Covered** | **Time** | **Materials** | **Assessment** |
| Graphing Stories | Graphing Stories 8.F.B.5 | November-December3 Days | FlipchartsProject | ProjectInterim Assessment 2 |
| Systems | No solution, one solution, infinitely many solutions 8.EE.C.7.ASystems with substitution 8.EE.C.8.B | December4 days | Flipcharts | QuizInterim Assessment 3 |
| Transformations8.G.A.18.G.A.28.G.A.38.G.A.4 | Coordinate Plane ReviewTranslationsReflectionsRotationsDilations | January10 days | FlipchartsProject | Unit TestInterim Assessment 3 |
| Triangles/Transversals | Angle Terms (Review)Transversals 8.G.A.5Interior Angles-Triangle (Review)Exterior Angles-Triangle 8.G.A.5 | January10 days | Flipcharts | QuizInterim Assessment 3 |
| Systems Word Problems | Review basic systems 8.EE.C.8.BTranslating words to math (Review)Word Problems 8.EE.C.8.C | February7 days | FlipchartsActivity | Unit TestMock EOG |
| Scatterplots | 2 way tables 8.SP.A.4Correlation 8.SP.A.1Scatterplots 8.SP.A.1Line of best fit 8.SP.A.2 8.SP.A.3 | February-March11 days | FlipchartsAge Guess2 way table project | Unit TestMock EOG |
| Exponents | Scientific Notation 8.EE.A.3Scientific Notation Word Problems 8.EE.A.4Exponent Rules 8.EE.A.1 | March 10 days | FlipchartsFoldable | QuizMock EOG |
| Repeating Decimals | Pattern for the ninths and ninety-ninths 8.NS.A.1All operations 8.NS.A.1 | Anytime during school year2 days | FlipchartFraction chart | Mock EOG |
| Square Root/Cube Root Equations | Area word problems 8.EE.A.2Volume word problems 8.EE.A.2 | Anytime during school year1 day | FlipchartWarm-Ups | Mock EOG |