**Math 1 Pacing Guide**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Unit** | **Topics Covered** | **Time** | **Materials** | **Assessment** |
| Unit 0 – Algebra Readiness | Combining like terms  Distributive Property  Order of operations  Graphing Inequalities  Substitution | 3 days | Entrance Ticket  Worksheets | Assessed as “Entrance Ticket” |
| Unit 1 – Expressions, Equation, Inequalities | Multi-step equations  Infinite, one, no solution (8.EE.C.7.A)  Literal Equations (A.CED.4)  Translating Expressions and Equations (A.CED.1)  Consecutive Integers (A.CED.1)  Inequalities – solving and graphing (A.RE1.3)  Translating Inequalities (A.CED.1)  Compound Inequalities (A.REI.3) | 18 days | Jolly Rancher Activity  Entrance/Exit Tickets  Worksheets  Flipcharts | 1 Quiz  Unit Test (Interim 1) |
| Unit 2 –  Functions | Slope-intercept Form: graphing, finding slope and y-intercept, writing equation of a line (8.F.1-5)  Slope word problems (F.IF.9)  Comparing Slope (8.F.1-5)  Standard Form: converting from slope-intercept, finding x and y intercepts (A.CED.2) (8.F.1-5)  Point-slope Form (G.GPE.5)  Parallel Lines (G.GPE.5)  Perpendicular Lines (G.GPE.5)  Arithmetic Sequences (F.IF.3)  Functions: domain/range, function notation, linear Functions, function stories (F.IF.1) | 29 days | Entrance/Exit Tickets  Worksheets  Flipcharts  MARS Linear Stories Task  Desmos Perpendicular Task | Quiz  Mid-unit test  Unit Test |
| Unit 3 –  Statistics | Scatterplots: correlation, line of best fit & applying (S.ID.6a)  Residuals (S.ID.6b)  Measures of Central Tendency (S.ID.2)  Box and Whisker Plots (S.ID.1)  Histograms (S.ID.1)  Two-way Tables (S.ID.5)  Frequency Tables (S.ID.5)  Standard Deviation (S.ID.2) | 18 days | Entrance/Exit Tickets  Worksheets  Flipcharts  Age Guess  CALCULATOR | Quiz  Unit Test |
| Unit 4 –  Systems of Equations | Solving Systems By: graphing (A.REI.12), substitution (A.REI.5), elimination (A.REI.11)  Systems Word Problems (A.REI.6)  Mixtures (A.CED.3)  Systems of Inequalities: solving and graphing (A.REI.12), word problems (A.CED.3)  Linear Programming (A.CED.3) | 25 days | Entrance/Exit Tickets  Worksheets  Flipcharts  CALCULATOR  Funky Furniture (linear programming intro activity)  Math 8 systems materials | 2 quizzes  Mid-unit Test  Unit Test |
| Unit 5 –  Exponents | Simplifying Radicals (N.RN.2)  Exponent Rules (N.RN.2) (8.EE.1)  Scientific Notation (8.EE.4)  Radical/Rational Expressions (N.RN.2) | 10 days | Entrance/Exit Tickets  Worksheets  Flipcharts  Math 8 Exponent materials | Unit Quiz |
| Unit 6 –  Polynomials | GCF of monomials (A.APR.1)  GCF of polynomials (A.APR.1)  Factor GCF of polynomials  Adding/Subtracting Polynomials (A.APR.1)  Multiplying Polynomials: monomial X monomial, monomial X polynomial, binomial X binomial, trinomial X trinomial (A.APR.1)  Polynomial Application Problems -area of a shaded region (A.APR.1)  Factoring Quadratics: where a = 1, where a > 1, perfect square trinomials, difference of squares (A.SSE.3)  Graphing Quadratics: min/max, vertex, axis of symmetry, roots, discriminate (F.IF.4)  Solving Quadratics and Quadratic Word Problems: by graphing (calculator), by factoring, by quadratic formula (A.CED.2) (F.IF.4) | 32 days | Entrance/Exit Tickets  Worksheets  Flipcharts  Desmos – Desperson Activity  CALCULATOR  Enrichment Activities:  Quadratics – Ducks Math Talk | Quiz (2?)  Mid-unit Test  Test |
| Unit 7 –  Exponential Equations | Exponential Growth and Decay (F.LE.1-2)  Compound Interest (F.LE.1-2)  Geometric Sequences (F.BF.1-2) | 7 days | Entrance/Exit Tickets  Worksheets  Flipcharts  CALCULATOR | Unit Quiz |
| Other Math 1 | Distance Formula (Pythagorean Theorem)  Mid-point Formula | 3 days | Worksheets  Flipcharts | Unit Quiz |
| Other Math 8 | Transformations, Triangles/Transversals, Number System, Cube Roots and Square Roots, Volume | TBD | Math 8 Warm-ups | Timed Root Quizzes  Math 8 Interims/MOCK |
| \*Other Math 7 | Probability, Surface Area, Volume | TBD | Math 7 Warm-ups | Math 7 Interims/MOCK |