**Math 1 Pacing Guide**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Unit** | **Topics Covered** | **Time** | **Materials** | **Assessment** |
| Unit 0 – Algebra Readiness | Combining like termsDistributive PropertyOrder of operationsGraphing InequalitiesSubstitution | 3 days | Entrance TicketWorksheets | Assessed as “Entrance Ticket” |
| Unit 1 – Expressions, Equation, Inequalities | Multi-step equationsInfinite, 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 ActivityEntrance/Exit TicketsWorksheetsFlipcharts | 1 QuizUnit 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 TicketsWorksheetsFlipchartsMARS Linear Stories TaskDesmos Perpendicular Task | QuizMid-unit testUnit 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 TicketsWorksheetsFlipchartsAge GuessCALCULATOR | QuizUnit 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 TicketsWorksheetsFlipchartsCALCULATORFunky Furniture (linear programming intro activity)Math 8 systems materials | 2 quizzesMid-unit TestUnit 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 TicketsWorksheetsFlipchartsMath 8 Exponent materials | Unit Quiz |
| Unit 6 –Polynomials | GCF of monomials (A.APR.1)GCF of polynomials (A.APR.1)Factor GCF of polynomialsAdding/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 TicketsWorksheetsFlipchartsDesmos – Desperson ActivityCALCULATOREnrichment Activities:Quadratics – Ducks Math Talk  | Quiz (2?)Mid-unit TestTest |
| 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 TicketsWorksheetsFlipchartsCALCULATOR | Unit Quiz |
| Other Math 1 | Distance Formula (Pythagorean Theorem)Mid-point Formula | 3 days | WorksheetsFlipcharts | Unit Quiz |
| Other Math 8 | Transformations, Triangles/Transversals, Number System, Cube Roots and Square Roots, Volume | TBD | Math 8 Warm-ups | Timed Root QuizzesMath 8 Interims/MOCK |
| \*Other Math 7 | Probability, Surface Area, Volume  | TBD | Math 7 Warm-ups | Math 7 Interims/MOCK |