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| **Date** | **Day** | | **Topic** | **Goal/Standard** |
|  |  |  | SOLVING EQUATIONS AND INEQUALITIES |  |
|  |  |  | **Integer Rules, learn names, Encouragement, HW Accountability, Ask about classes, Lessons from upperclassmen and college kids, humor, SMILE!** |  |
| Aug 25 | M | 1 | Literal Equations | A.CED.4 |
| Aug 26 | T | 2 | Literal Equations | A.CED.4 |
| Aug 27 | W | 3 | Solving Equation: One and Two-Step Equations | A.REI.3, A.REI.1 |
| Aug 28 | Th | 4 | Solving Equation  Distributive Property and Variables on Both Sides | A.REI.3, A.REI.1 |
| Aug 29 | F | 5 | Solving Equation  Distributive Property and Variables on Both Sides | A.REI.3, A.REI.1 |
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| Sept 1 | M |  | ***Holiday*** |  |
| Sept 2 | T | 6 | Geometry Connection to Equations: Vertical Angles, Perimeter, interior of a triangle and triangle type, Supplementary and Complementary Angles, Consecutive Integers | A.CED.1, A.REI.3 |
| Sept 3 | W | 7 | Solving One-Variable Inequality | A.REI.3, A.REI.1 |
|  |  | 8 | Review/Test |  |
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|  |  |  | **POLYNOMIALS** |  |
| Nov 3 | M | 9 | Add and Subtract Polynomials | A.APR.1 |
| Nov 4 | T | 10 | Multiplying Polynomials | A.APR.1 |
| Nov 5 | W | 11 | Area and Perimeter  Area of a Shaded Region | A.APR.1, A.CED.2(Quadratic) |
| Nov 6 | Th | 12 | Divide and Factor by Greatest Common Factor (GCF) | A.APR.1 |
| Nov 7 | F | 13 | Test: Polynomials & Solving Equations |  |
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|  |  |  | **EXPONENTS** |  |
| Nov 10 | M | 14 | Product, Quotient and Power-to-Power | N.RN.2 |
| Nov 11 | T | ***15*** | Power-to-Power & Zero | N.RN.2 |
| Nov 12 | W | 16 | Negative Exponents | N.RN.2 |
|  |  | 17 | Review/Catch-up | N.RN.2 |
| Nov 17 | M | 18 | Test: Exponents |  |
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|  |  |  | **CREATING LINEAR FUNCTIONS FROM DATA**  **(Understanding Slope as Rate of Change)** |
| Sept 15 | M | 19 | Slope Intercept Form of a Line and Key Features, Intercepts, Rewrite from Standard Form, Special Cases of Slope | F.IF.7, F.IF.6, A.SSE.1(linear) |
| Sept 16 | T | 20 | Graphing Linear Equations | F.IF.7 |
| Sept 17 | W | 21 | Writing the Equation of a Line from Slope&Point, Two Points, or a Graph | F.IF.7. F.IF.6 |
| Sept 18 | Th | 22 | Writing the Equation of a Line from Slope&Point, Two Points, or a Graph | F.IF.7, F.IF.6 |
| Sept 19 | F | 23 | Parallel and Perpendicular Lines | G.GPE.5 |
|  |  |  |  |  |
| Sept 22 | M | 24 | Parallel and Perpendicular Lines | G.GPE.5 |
| Sept 23 | Tu | 25 | Review |  |
| Sept 24 | W | 26 | Test: Creating Linear Function From Data |  |
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|  |  |  | **CREATING LINEAR EQUATIONS FROM WORD PROBLEM** |  |
| Sept 4 | Th | *27* | Domain and Range and Relations and Functions (Vertical Line Test) | F.IF.1, F.IF. 5, F.IF.2(linear) |
| Sept 5 | F | 28 | FLEX DAY |  |
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| Sept 8 | M | 29 | Writing Equation of a Line in Slope-Intercept Form from a Word Problem (focus on units) | A.CED.1(linear) |
| Sept 9 | T | 30 | Writing Equation of a Line in Standard Form from a Word Problem (focus on units) | A.CED.2(linear), A.REI.10 |
| Sept 10 | W | 31 | Creating Equations from Algebraic Expressions | A.CED.2 |
| Sept 11 | Th | 32 | Review/Practice |  |
| Sept 12 | F | 33 | Test 2: Creating Functions  (CFA 1 Sept 15 - 17) |  |
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|  |  |  | **SYSTEMS OF LINEAR EQUATIONS** |
| Sept 25 | Th | 34 | Systems of Equations by Substitution (both y=) (Graphing & By Hand) | A.REI.6 |
|  |  |  | Systems of Equations by Substitution (both y=) Word Problems | A.CED.3, A.REI.11 |
| Sept 26 | F | 35 | Systems of Equation by Substitution (Substitute one equation into another) incl. Word Problems | A.REI.6 |
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| Sept 29 | M | 36 | Systems of Equations by Elimination (Easy & Hard) | A.REI.6, A.REI.5 |
| Sept 30 | T | 37 | Systems of Equations by Elimination Word Problems | A.CED.3 |
| Oct 1 | W | 38 | Graphing 2 Variable Inequalities incl. Word Problems | A.REI.12, A.CED.3 |
| Oct 2 | Th | 39 | Graphing Systems of Linear Inequalities | A.REI.12 |
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| Oct 3 | F | ***40*** | ***Student Early Release (End of 1st 6 weeks)***  Test 4: Systems of Equations |  |
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|  |  |  | **EXPONENTIAL FUNCTION** |  |
|  |  |  | Graphing Exponential Functions & Key Features (Asymptote, y-intercept) | F.IF.7(exponential), SSE.1(Exponential) |
|  |  |  | Comparing Exponential vs. Linear Growth | F.LE.3 |
| Oct 6 | M | 41 | Exponential Growth and Decay Word Problems, Evaluating | A.CED.1(Exponential)  F.IF.2(Exponential) |
| Oct 7 | T | 42 | Percent Growth and Decay Problems incl. Interpreting growth/decay rates from equation | A.CED.1(Exponential)  F.IF.8b |
| Oct 8 | W | 43 |  |  |
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|  |  |  | **Sequences & Recursive Forms** |  |
| Oct 21 | T | 52 | Recursive Function Notation, Distinguish between Arithmetic and Geometric Sequences, Determining Common Difference and Ratios | F.IF.3, F.LE.1 |
| Oct 22 | W | 53 | Write Recursive Function from a Table (Linear or Exponential) | F.BF.1a(sequences) |
| Oct 23 | Th | 54 | Converting between Recursive (linear and exponential) and Explicit Formulas (an = a1 +d(n – 1) & an = a0(r)n) | F.BF.2 |
| Oct 24 | F | 55 | Converting between Recursive (linear and exponential) and Explicit Formulas | F.BF.2 |
|  |  |  | Test: Recursive & Explicit Functions |  |
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|  |  |  | **QUADRATIC FUNCTION** |  |
| Oct 9 | Th | 44 | Finding the y-intercept, Axis of Symmetry, and Vertex, domain of increase/decrease (From Graphs & From Equations) | F.IF.7(Quadratics)  A.SSE.1(Quadratics) |
| Oct 10 | F | 45 | Graph Quadratics Using Key Features | F.IF.7(Quadratics) |
|  |  |  | Graph Quadratics using Data Tables (Including Evaluating Quadratics) | F.IF.7(Quadratics), F.IF.2(Quadratics) |
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| Oct 13 | M | 46 | Solving Quadratic Equations by Taking Square Roots & by Factoring (a = 1) | A.REI.4, A.SSE.3, A.APR.3 |
| Oct 14 | T | 47 | Solving Quadratic Equations by Factoring (a = 1) | A.REI.4, A.SSE.3, A.APR.3 |
| Oct 15 | W | 48 | Factoring and Solving Quadratic Equations (a > 1 where a can be divided out) COVER a>1 otherwise??? | A.REI.4, A.SSE.3, A.APR.3 |
| Oct 16 | Th | 49 | Word Problems (Min/Max and Zeros and Evaluating) | F.IF.8a, F.IF.4 |
| Oct 17 | F | 50 | Word Problems (Min/Max and Zeros and Evaluating) | F.IF.8a, F.IF.4 |
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| Oct 20 | M | 51 | Test 5: Exponential and Quadratic Function |  |
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|  |  |  | **Comparing Functions (Make Flipcharts!)** |  |
|  |  |  | Operations with Functions (Add, subtract, multiply) | F.BF.1.b |
|  |  |  | Compare Key Features of 2 Functions | F.IF.9 |
|  |  |  | Compare Exponential and Linear Growth | F.LE.3 |
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| Oct 27 | M |  | ***Required Teacher Workday*** |  |
| Oct 28 | T | 56 | Graphing the Three Different Functions from a Table or Function Rule | F.IF.7 |
| Oct 29 | W | 57 | Test 6: The Three Function Types |  |
| Oct 30 | Th | 58 | Review for Benchmark |  |
| Oct 31 | F | 59 | BENCHMARK |  |
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|  |  |  | **GEOMETRY CONNECTION** |  |
| Nov 18 | T | ***60*** | ***End of 2nd 6 weeks***  Midpoint and Endpoint Formula | G.GPE.6 |
| Nov 19 | W | 61 | Distance Formula include Area and Perimeter from Coordinates | G.GPE.4 |
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| Nov 24 | M | 62 | One-Variable Statistics | S.ID.1 |
| Nov 25 | T | 63 | Box Plots and Comparing Data | S.ID.1, S.ID.2, S.ID.3 |
| Nov 26 | W |  | ***Annual Leave*** |  |
| Nov 27 | Th |  | ***Holiday Thanksgiving Break*** |  |
| Nov 28 | F |  | ***Holiday Thanksgiving Break*** |  |
|  |  |  | **Statistics** |  |
| Dec 1 | M | 64 | 2 variable Statistics: Scatter Plots, Correlation vs. Causation, Correlation Coefficients, Line of Best Fit (linear) | S.ID.6a, S.ID.8, S.ID.9 |
| Dec 2 | T | 65 | Making Predictions using Line of Best Fit, Residual Plots | S.ID.6b, S.ID.8 |
| Dec 5 | F | 66 | Interpreting Slope & y-intercept of a linear model | S.ID.7 |
|  |  |  |  |  |
| Dec 8 | M | 67 | Line of Best Fit for Exponential Models | S.ID.6c |
| Dec 9 | T | 68 | Review Statistics |  |
| Dec 10 | W | 69 | Test: Statistics |  |
| Dec 11 | Th | 70 |  |  |
| Dec 12 | F | 71 |  |  |
|  |  |  |  |  |
| Dec 15 | M | 72 | Review |  |
| Dec 16 | T | 73 | Review |  |
| Dec 17 | W | 74 | Review |  |
| Dec 18 | Th | 75 | Review |  |
| Dec 19 | F | ***76*** | ***Student Early Release***  Review |  |
| Dec 22 – Jan 1 |  |  | Christmas Break |  |
|  |  |  |  |  |
| Jan 2 | F |  | ***Optional Teacher Workday*** |  |
|  |  |  |  |  |
| Jan 5 | M | 77 | Mock EOC/Review |  |
| Jan 6 | T | 78 | Mock EOC/Review |  |
| Jan 7 | W | 79 | Mock EOC/Review |  |
| Jan 8 | Th | 80 | Mock EOC/Review |  |
| Jan 9 | F | 81 | CFA 3 Retest |  |
|  |  |  |  |  |
| Jan 12 | M | 82 | Review |  |
| Jan 13 | T | ***83*** | ***EXAM*** |  |
| Jan 14 | W | ***84*** | ***EXAM*** |  |
| Jan 19 | M |  | ***Holiday*** |  |
| Jan 20 | T |  | ***Optional Teacher Workday*** |  |
| Jan 21 | W |  | ***Required Workday*** |  |
| Jan 22 | Th |  | **FIRST DAY OF SECOND SEMESTER** |  |
| Jan 24 | F |  |  |  |
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\*Students who do not meet proficiency will be moved to yearlong Math I.