Math 1 EOC Test Topics

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| **Unit 1: Solving Equations & Inequalities** |
| Writing and Simplifying Expressions/Equations |
| Solving Equations |
| Solving Equations with Special Cases (Infinitely Many Solutions/No Solution) |
| Solving Literal Equations |
| Solving Word Problems |
| Solving Inequalities |
| Solving Inequality Word Problems |

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| **Unit 2: Functions** |
| Arithmetic & Geometric patternsRecursive & Explicit Equations |
| Determining if a Relation is a Function |
| Domain and Range |
| Function NotationEvaluating Functions Symbolically or Graphically |
| Interpreting graphs(Story graphs) |
| Rate of Change(A.K.A. Slope) |
| **Unit 3: Linear Equations** |
| Pythagorean Theorem, Distance and Midpoint Formulas |
| Slope |
| Standard form 🡪 Slope-Intercept form (graphing, determining slope and y-intercept) |
| Horizontal & Vertical Lines |
| Writing equations of lines given a graph |
| Writing Equations of lines given slope and a point |
| Writing equations of lines given two points |
| Linear Word Problems |
| Parallel and Perpendicular Lines (graphing/writing equations of) |
| Scatter plots and Correlation |
| Using the line of best fit to make predictions (Linear Regression) |
| **Unit 4: Systems of Equations and Inequalities** |
| Solving Systems by Graphing |
| Solving Systems by Substitution |
| Solving Systems by Elimination |
| Solving Systems with the Calculator (Graphing, table or matrices) |
| Systems of Equations Word Problems  |
| Graphing Linear Inequalities  |
| Solving Systems of Linear Inequalities |
| Systems of Linear Inequalities Word Problems |

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| **Unit 5 : Exponential Functions** |
| Rules of Exponents |
| Graphs of Exponential Functions |
| Growth and Decay |
| Systems of Linear & Exponential Functions |
| Exponential Regression |
| **Unit 6: Polynomials & Factoring** |
| Classifying Polynomials |
| Operations withPolynomials |
| Factoring Notes – Basic Trinomial |
| Factoring – Difference of Squares |
| Factoring – Grouping |
| **Unit 7: Quadratics** |
| Parts of a Parabola |
| Factoring Completely(taking GCF out, factoring again) |
| Solving Quadratics |
| Quadratic Word Problems |
| Quadratic Regression |
| **Unit 8: Statistics** |
| Vocabulary |
| Frequency Tables and Histograms |
| Box Plots5 number summary |
| Interquartile Range & Outliers |
| Shape of data – Mean vs. Median |