

MATH A13 CURRICULUM MAP

1 ST MARKING PERIOD	2 ND MARKING PERIOD
<p>1. RELATIONSHIPS OF RATIONAL NUMBERS (Standard 1)</p> <ul style="list-style-type: none">A. Operations with integers with and without calculatorsB. Operations with fractions with and without calculatorsC. Operations with decimals including rounding off with and without the calculatorD. Order of operationsE. Absolute valueF. Properties of numbersG. Word problems without variables <p>2. ALGEBRAIC EXPRESSIONS (Standard 4)</p> <ul style="list-style-type: none">A. ReadingB. WritingC. Evaluating included area, perimeter and volume formulasD. Addition/ subtraction of monomials <p>3. SOLVING 1ST DEGREE EQUATIONS (Standard 1)</p> <ul style="list-style-type: none">A. $ax + b = c$B. Simple word problems	<p>1. ALGEBRAIC EXPRESSIONS (Standard 4)</p> <ul style="list-style-type: none">A. Multiplication/ division of monomialsB. Addition, subtraction, and multiplication of polynomialsC. Division of a polynomial by a monomialD. Positive and negative exponentsE. Scientific notation <p>2. SOLVING COMPLEX 1ST DEGREE EQUATIONS</p> <ul style="list-style-type: none">A. Equations with parenthesesB. Combining variablesC. Literal equations <p>3. MID TERM EXAM</p>

MATH A13

3rd MARKING PERIOD	4TH MARKING PERIOD
<p>1. SOLVING LINEAR WORD PROBLEMS(Standard 1) A. Perimeter B. Circumference C. Age D. Distance E. Consecutive integers F. Coin</p> <p>2. SOLVE & GRAPH INEQUALITIES (Standard 1) A. Algebraically B. Number line C. Word problems</p> <p>3. RATIO AND PROPORTION (Standard 1) A. Definitions B. Solving algebraically, including those with binomials C. Word problems</p>	<p>1. PERCENTS (Standard 1) A. Expressing percents as a fraction and decimal B. Expressing a fraction and decimal as a percent C. The three cases of percent D. Word problems to include consumer applications</p> <p>2. GEOMETRY (Standard 2) A. Vocabulary: point, line, plane, segment, ray, angle B. Classification of angles C. Use of protractor D. Identifying geometric figures: 2 and 3 dimensional</p> <p>3. LINE AND ANGLE RELATIONSHIPS (Standard 2) A. Complementary, supplementary, and linear pairs of angles B. Pairs of angles formed by parallel and intersecting lines C. Algebraic problems</p> <p>4. FINAL EXAM</p>

MATH A23 CURRICULUM MAP

1st MARKING PERIOD

1. REVIEW OF A13 TOPICS

- A. Monomials
- B. Polynomials
- C. Solving equations/ inequalities
- D. Word problems

2. TRIANGLES (Standard 2)

- A. Angles of a triangle – interior and exterior
- B. Angle inequalities and the opposites sides
- C. Sum of two sides must be greater then the third side
- D. Types of triangles and their properties
 - Isosceles and right(Pythagorean theorem)
- E. Congruent triangles
- F. Similar triangles

2nd MARKING PERIOD

1. SYSTEMS OF EQUATIONS (Standard 4)

- A. Solving algebraically
- B. Word problems

2. GRAPHING (Standard 4)

- A. Review of coordinate plane
- B. Graphing linear equations using the chart
- C. Slope formula
- D. Graphing using $y = mx + b$
- E. Solving systems of linear equations

3. RADICALS (Standard 1)

- A. Simplifying
- B Operations
- C. Radicals involving variables
- D. Real numbers and irrational numbers
- E Estimation of radicals

4. MID TERM EXAM

MATH A 23

3rd MARKING PERIOD	4th MARKING PERIOD
<p>1. FACTORING (Standard 1 & 4) A. G.C.F. B. Difference of 2 perfect squares C. Trinomials D. Factoring completely</p> <p>2. ALGEBRAIC FRACTIONS (Standard 1 & 4) A. Reducing B. Undefined C Operations with algebraic fractions</p>	<p>1. QUADRATIC EQUATIONS (Standard 4) A. Solve by factoring B. Word problems C. Solving quadratic/linear systems algebraically</p> <p>2. GRAPHING (Standard 2) A. Graphing linear inequalities B. Writing linear equations Slope – y intercept Point – slope C. Parallel and perpendicular lines D. Parabola E. Circle F. Solving quadratic/ linear systems graphically G. Midpoint formula H. Distance formula</p> <p>3. FINAL EXAM</p>

MATH A33 CURRICULM MAP

1st MARKING PERIOD

1. REVIEW A13 AND A23 TOPICS

- A. Linear and quadratic equations
- B. Graphing lines, parabolas, & circles
- C. Systems of equations
 - Algebraically
 - Graphically
- D. Triangles
- F. Factoring – algebraic fractions

2. QUADRILATERALS (Standard 2)

- A. Parallelogram
- B. Rectangle
- C. Rhombus
- D. Square
- E. Trapezoid – isosceles trapezoid

3. POLYGONS (Standard 2)

- A. Interior angle sum
- B. Exterior angle sum

2nd MARKING PERIOD

1. SHADED AREAS

- A. Adding and/or subtracting two or more areas

2. TRANSFORMATIONS (Standard 2)

- A. Symmetry – point and line
- B. Reflection – point and line
- C. Translation
- D. Rotation
- E. Dilation

3. RIGHT TRIANGLE RELATIONSHIPS (Standard 2)

- A. Trigonometry: SOH – CAH – TOA
- B. Word problems
 - Angle of elevation and angle of depression

4. MID TERM EXAM

MATH A 33

3rd MARKING PERIOD

1. LOGIC (Standard 5)

- A. Open and closed statements
- B. Negation
- C. Conjunction
- D. Disjunction
- E. Conditional
- F. Converse, inverse, and contra positive

2. PROBABILITY (Standard 3)

- A. Counting principle
- B. Tree diagrams and sample space
- C. Permutations
- D. Combinations
- E. Probability with and without replacement
- F. And / Or probability

3. STATISTICS (Standard 3)

- A. Frequency and cumulative frequency
- B. Mean, median, mode, and range
- C. Histograms
- D. Analysis of data: quartiles and percentiles
- E. Whisker plots, stem and leaf, circle graphs

4th MARKING PERIOD

1. LOCUS (Standard 2)

- A. The five basics
- B. Constructions

2. REGENTS REVIEW