



YONKERS PUBLIC SCHOOLS

MATH B₁

CURRICULUM MAPS

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	1 ST Marking Period	2 nd Marking Period
STANDARD/ CONCEPTS AND SKILLS	<ol style="list-style-type: none"> 1. RATIONAL AND IRRATIONAL EXPRESSIONS <ol style="list-style-type: none"> A. Properties of real numbers B. Operations with radicals and rational C. Rationalizing radical denominators D. Solving fractional and radical equations 2. ABSOLUTE VALUE AND INEQUALITIES <ol style="list-style-type: none"> A. Solving inequality equations of the first and Second 3. INTRODUCTION TO FUNCTIONS <ol style="list-style-type: none"> A. Notation B. Domain and range 4. CIRCLES <ol style="list-style-type: none"> A. Part of a circle B. Angle / Arc relationships C. Segment, chord, tangent, and secant relationships D. Applications / Extended responses 	<ol style="list-style-type: none"> 1. INTRODUCTION TO TRIGONOMETRY <ol style="list-style-type: none"> A. Basic identities with the 6 functions B. Basic reference angles (30-45-60) 2. UNIT CIRCLE <ol style="list-style-type: none"> A. Redefining angles to positive acute angles B. Quadrant angles C. Radian measure D. Conversion between radian and degree measure E. Calculator usage 3. TRIG GRAPHS <ol style="list-style-type: none"> A. Amplitude B. Frequency C. Period D. Solving problems using graphs E. Calculator usage 4. TRANSFORMATIONS <ol style="list-style-type: none"> A. Review of dilation, rotation, translation, line and point reflection B. composition of transformations C. Isometrics D. Glide reflections E. Transformation of trig graphs F. Applications 5. MID-TERN EXAM

MATH B₁ CURRICULUM MAPS

	3 rd Marking Period	4 th Marking Period
STANDARD/ CONCEPTS AND SKILLS	<ol style="list-style-type: none"> 1. SPECIAL FRACTIONS AND RELATIONS <ol style="list-style-type: none"> A. Direction and indirect variation B. Inverse functions C. Composition of functions 2. CONIC SECTIONS <ol style="list-style-type: none"> A. Equations of the circle, ellipse, and Hyperbola B. Graphs of the circle, ellipse, and hyperbola C. Solving equations 3. TRIGONOMETRY EQUATIONS <ol style="list-style-type: none"> A. Solving linear and quadratic trig equations B. Proving trig identities C. Solving equations with more than one function D. Laws of Sine and Cosine E. Inverse Trig functions F. Ambiguous case G. Area problems 	<ol style="list-style-type: none"> 1. COMPLEX NUMBERS AND QUADRATICS <ol style="list-style-type: none"> A. Imaginary numbers B. Operations on imaginary and complex numbers C. Graphically add / subtract complex numbers D. Complex roots to quadratic equations E. Sum and product of two roots of quadratic equations 2. EXPONENTS AND LOGARITHMS <ol style="list-style-type: none"> A. Zero, negative, and rational exponents B. Solving exponential equations C. Properties of logarithms D. Graphing log and exponential equations E. Solving log equations 3. PROBABILITY AND STATISTICS (if time permits) <ol style="list-style-type: none"> A. Sigma notation B. Central tendency C. Normal curve D. Binomial theorem <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> } (School-based decision) </div>