

<b>Scope &amp; Sequence</b>	<b>Math Department</b>																	
Reviewed September 2024																		
	K5	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Pre-Algebra (PA)	Algebra 1 A (Aa)	Algebra 1b (Ab)	Algebra 1 (A1)	Geometry (G)	Algebra 2 Regular (a2)	Algebra 2 Advance (A2)	College Algebra (CA)	Statistics (S)	Pre-Calculus (PC)	Calculus (C)
<b>I. Numbers/Numeration</b>																		
<b>A. Whole Numbers</b>																		
1. Recognizing/Writing	K5	1	2	3	4	5												
2. Comparing	K5	1	2	3	4	5												
3. Ordering	K5	1	2	3	4	5												
4. Recognize Pattern/sequence	K5	1	2	3	4	5												
5. Counting	K5	1	2	3	4	5												
6. Identifying Place Values/Comas		1	2	3	4	5												
7. Rounding			2	3	4	5												
8. Understanding Multiples		1	2	3	4	5												
9. Writing Odd/Even Numbers		1	2	3	4	5												
10. Using Ordinal Numbers	K5	1	2	3	4	5												
11. Reading Number Words	K5	1	2	3	4	5												
12. Recognizing Roman Numbers		1	2	3	4	5												
<b>B. Positive Rational Numbers</b>																		
1. Using Decimals		1	2	3	4	5	6											
2. Comparing Decimals						5	6											
3. Labeling on Number Line						5	6											
4. Rounding to nearest cent						5												
5. Writing decimals as fractions					4	5	6											
6. Identifying fractional parts of numbers	K5	1	2	3	4	5												
7. Writing remainders as fractions				3	4	5												
8. Recognizing equal fractions				3	4	5	6											
9. Reducing fractions				3	4	5	6											
10. Understanding proper/improper fractions					4	5	6											
11. Finding least common denominators					4	5	6											
12. Converting fractions to decimals						5	6											
13. Using percents						5	6											
<b>C. Real</b>																		
1. Translate verbal expressions to algebraic expressions							6	PA	Aa	Ab	A1	G	a2	A2	CA		PC	C
2. Evaluate expressions containing variables							6	PA	Aa	Ab	A1	G	a2	A2	CA			
3. Use number line for ordering integers							6	PA	Aa	Ab	A1	G	a2	A2	CA			
4. Use symbols of exponents and roots								PA	Aa	Ab	A1	G	a2	A2	CA			
5. Write equivalent fractions, decimals, %							6	PA	Aa	Ab	A1	G	a2	A2	CA			
6. Learn symbols of probability							6	PA	Aa	Ab	A1	G	a2	A2	CA		PC	C
7. Understand concept and symbols of absolute value								PA	Aa	Ab	A1	G	a2	A2				



4. Using 4 Ways to show mult. Facts				3	4	5														
5. Carrying				3	4	5														
6. Using 6 ways to prove				3	4	5														
7. Multiplying money				3	4	5														
8. Regrouping Factors				3	4	5														
9. Multiply Two-digit Factors				3	4	5														
10. Understanding Partial Products				3	4	5														
11. Multiply 3 digit times 2 digit factors				3	4	5														
12. Checking					4	5														
13. Multiplying by 10 and 100					4	5														
14. Multiplying by 3 digit factors					4	5	6	PA												
19. Multiplying Fractions					4	5	6	PA												
20. Multiplying Fraction and Whole					4	5	6	PA												
21. Multiplying Fractions and Mixed numbers					4	5	6	PA												
22. Doing Cross Multiplication						5	6	PA												
23. Multiplying Decimals						5	6	PA	Aa		A1									
24. Find the square of a number						5	6	PA	Aa	Ab	A1									
25. Find the cube and higher powers of numbers						5	6	PA	Aa	Ab	A1									
D. Division																				
1. Memorizing Meaning/Basic Facts			2	3	4	5														
2. Divide with One digit Divisor				3	4	5														
3. Use Five steps for division				3	4	5														
4. Checking				3	4	5														
5. Finding Remainders				3	4	5														
6. Dividing Money				3	4	5														
7. Short Division				3	4	5														
8. Divide with Two Digit Divisors				3	4	5														
9. Estimating Quotients				3	4	5														
10. Estimating 2 digit divisors					4	5														
11. Divide with 3 Digit Divisors						5														
12. Divisibility Rules							6	PA					a2							
13. Dividing Fractions					4	5	6				A1									
14. Dividing Decimals					4	5	6													
15. Factoring					4	5	6	PA	Aa		A1		a2	A2	CA		PC	C		
16. Finding Common Factors											A1		a2	A2	CA		PC	C		
17. Finding Greatest Common Factor							6	PA	Aa		A1		a2	A2	CA		PC	C		
18. Finding Least Common Factor							6	PA	Aa		A1		a2	A2	CA		PC	C		
19. Find the square root of a number									Aa	Ab	A1	G	a2	A2	CA		PC	C		
20. Find the cube root and higher roots of numbers.												G	a2	A2	CA		PC	C		
E. Operations with algebraic expressions																				
1. Add, subtract, multiply, divide and simplify monomials.									PA	Aa	Ab	A1		a2	A2	CA		PC	C	
2. Add, subtract, multiply and simplify polynomials									PA	Aa	Ab	A1		a2	A2	CA		PC	C	
3. Factor polynomials									PA	Aa	Ab	A1		a2	A2	CA		PC	C	
4. Divide polynomials using long division and synthetic division.									PA	Aa	Ab	A1		a2	A2	CA		PC	C	

5. Simplify complex fractions														CA		PC	C	
F. Calculator																		
1. Use a calculator to find powers and estimate roots of numbers								Aa	Ab	A1			a2	A2	CA		PC	C
2. Input and use a given program on a programmable, graphing calculator													a2	A2	CA	S	PC	C
G. Trigonometry																		
1. Use a calculator to find values of trigonometric functions														A2	CA		PC	C
2. Use right triangles to find trigonometric values										G				A2	CA		PC	C
3. Verify trigonometric identities using various methods														A2	CA		PC	C
4. Find values of sine and cosine involving sum and difference formulas														A2	CA		PC	C
5. Find values of sine and cosine involving half- and double-angle formulas														A2	CA		PC	C
H. Exponents/Roots																		
1. Add, subtract, multiply, divide and simplify radical expressions								Ab	A1	G		a2	A2	CA			PC	C
2. Add, subtract, multiply, divide and simplify complex numbers								Ab	A1			a2	A2	CA			PC	C
3. Add, subtract, multiply, divide and simplify rational expressions								Ab	A1			a2	A2	CA			PC	C
4. Add, subtract, multiply and divide using scientific notation												a2	A2				PC	C
5. Rationalize the denominator of a fraction containing a radical expression								Ab	A1			a2	A2	CA			PC	C
5. Simplify expressions containing rational exponents												a2	A2	CA			PC	C
6. Simplify radicals containing negative radicands								Ab	A1				A2	CA			PC	C
7. Simplify rational expressions containing complex numbers in the denominator													A2	CA			PC	C
8. Simplify radicals having various indices													A2	CA			PC	C
9. Use the properties of exponents								Ab	A1			a2	A2	CA			PC	C
I. Vectors																		
1. Add and subtract vectors graphically																	PC	
2. Add, subtract, multiply, and find the magnitude of vectors algebraically																	PC	
3. Add and subtract vectors in three-dimensional space																	PC	
4. Find the magnitude of vectors in three-dimensional space																	PC	
5. Find the inner and cross products of two vectors																	PC	
6. Determine whether two vectors are perpendicular																	PC	



10. Use proportions to solve problems								PA	Aa	Ab	A1	G	a2	A2	CA		PC	C
11. Use proportions and equations to solve percent problems								PA	Aa	Ab	A1	G	a2	A2	CA		PC	C
12. Solve equations containing absolute value								PA	Aa	Ab	A1	G	a2	A2	CA		PC	C
13. Use the properties of inequalities								PA	Aa	Ab	A1	G	a2	A2	CA		PC	C
14. Identify and solve compound sentences using "and" and "or"									Aa	Ab	A1		a2	A2	CA		PC	
15. Solve absolute value equations and inequalities								PA	Aa	Ab	A1		a2	A2	CA		PC	
16. Determine whether a given relation is a function									Aa	Ab	A1		a2	A2	CA		PC	C
17. Identify the domain and range of any relation or function								PA	Aa	Ab	A1		a2	A2	CA		PC	C
18. Identify an odd function and an even function													a2	A2	CA		PC	C
19. Find the values of functions for given elements of the domain														A2	CA		PC	C
20. Find the composition of functions algebraically and graphically.														A2	CA		PC	C
21. Determine the inverse of a relation or a function													a2	A2	CA		PC	C
22. Find the inverse of a function algebraically and graphically.													a2	A2	CA		PC	C
23. Explain how composition of functions and finding the inverse of a function affects the domain and range of the functions.													a2	A2	CA		PC	
B. Linear																		
1. Solving linear equations																		
a. Mentally							6	PA	Aa	Ab	A1	G	a2	A2	CA		PC	
b. Substitution								PA	Aa	Ab	A1	G	a2	A2	CA		PC	
c. Inverse operations							6	PA	Aa	Ab	A1		a2	A2	CA		PC	
2. Solve multi-step linear equations								PA	Aa	Ab	A1							
a. Using properties for simplification									Aa	Ab	A1		a2	A2	CA		PC	C
b. Equations with variables on both sides									Aa	Ab	A1		a2	A2	CA		PC	C
3. Solving system of equations																		
a. Graphing									Aa	Ab	A1		a2	A2	CA		PC	C
b. Substitution									Aa	Ab	A1		a2	A2	CA		PC	C
c. Elimination									Aa	Ab	A1		a2	A2	CA		PC	C
d. Using Cramer's rule													a2	A2			PC	C
4. Find the distance between two points									Aa	Ab	A1	G	a2	A2	CA		PC	C
5. Find the slope of a line through two points									Aa	Ab	A1	G	a2	A2	CA		PC	C
6. Prove geometric theorems involving slope, distance, and midpoints analytically												G						
7. Write linear equations in standard form									Aa	Ab	A1		a2	A2	CA		PC	
8. Determine the slope and intercepts of a line									Aa	Ab	A1	G	a2	A2	CA		PC	C
9. Write linear equations using point-slope form									Aa	Ab	A1		a2	A2	CA		PC	C
10. Write the slope-intercept form of an equation of a line									Aa	Ab	A1	G	a2	A2	CA		PC	
11. Write equations of parallel and perpendicular lines									Aa	Ab	A1	G	a2	A2	CA		PC	



16. Solve quadratic inequalities in one variable																		A2	CA			PC				
E. Polynomials																										
1. Determine roots of polynomial equations																			a2	A2	CA			PC	C	
2. Apply the fundamental theorem of algebra																			a2	A2	CA			PC	C	
3. Find the factors of polynomials using the remainder and factor theorems																			a2	A2	CA			PC	C	
4. Identify all possible rational roots of a polynomial equation by using the rational root theorem																				A2	CA			PC		
5. Determine the number of positive and negative real zeros a polynomial function has																			a2	A2	CA			PC		
6. Approximate the real zeros of a polynomial function																				A2	CA			PC	C	
F. Conics																										
1. Write equations of parabolas																			a2	A2	CA			PC	C	
2. Write equations of circles																				A2	CA			PC	C	
3. Write equations of ellipses																				A2				PC	C	
4. Write equations of hyperbolas																				A2				PC	C	
5. Write the equation of a conic section in standard form																				A2				PC	C	
6. Identify a conic section from its equation																				A2				PC	C	
7. Use the standard and general forms of the equation of a circle																				A2	CA			PC	C	
8. Use the standard and general forms of the equation of a parabola																				A2	CA			PC	C	
9. Use the standard and general forms of the equation of an ellipse																				A2				PC	C	
10. Use the standard and general forms of the equation of a hyperbola																				A2				PC	C	
11. Recognize conic sections by their equations																				A2				PC	C	
12. Solve systems of quadratic equations algebraically																					CA			PC	C	
G. Radical functions																										
1. Write expressions with rational exponents in simplest radical form and vice versa																				a2	A2	CA			PC	C
2. Evaluate expressions in either exponential or radical form																				a2	A2	CA			PC	C
3. Simplify expressions containing rational exponents																				a2	A2	CA			PC	C
4. Solve radical equations and inequalities																					A2	CA			PC	C
H. Rational functions																										
1. State the domain and range of a rational function.																				a2	A2	CA			PC	C
2. Identify the vertical and horizontal asymptotes of a rational function.																					A2	CA			PC	C
3. Determine horizontal, slant, and vertical asymptotes of rational functions																					A2	CA			PC	C
4. Simplify rational expressions																					A2	CA			PC	C
5. Simplify rational expressions containing complex numbers in the denominator																					A2	CA			PC	C



6. Find the least common denominator of two or more algebraic expressions																	CA		PC	C
7. Solve rational equations and inequalities																	A2		PC	C
I. Exponential and Logarithmic functions																				
1. Evaluate and simplify expressions involving real exponents							6	PA	Aa	Ab							A2	CA	PC	C
2. Evaluate expressions with irrational exponents																	A2		PC	C
3. Simplify expressions and solve equations involving real exponents							6	PA	Aa	Ab	A1	G	a2				A2		PC	C
4. Write exponential equations in logarithmic form and vice versa													a2				A2	CA	PC	C
5. Evaluate logarithmic expressions																	A2	CA	PC	C
6. Find common logarithms and antilogarithms																	A2	CA	PC	C
7. Identify the characteristic and the mantissa of a common logarithm																	A2	CA	PC	C
8. Use common logarithms to compute powers and roots																	A2	CA	PC	C
9. Evaluate $e^x$ by using the exponential series																	A2	CA	PC	C
10. Use the exponential function $y = e^x$																	A2	CA	PC	C
11. Find natural logarithms of numbers																	A2	CA	PC	C
12. Solve equations using natural logarithms																	A2	CA	PC	C
13. Solve equations involving logarithmic functions																	A2	CA	PC	C
14. Solve equations or simplify and evaluate expressions using properties of logarithms																	A2	CA	PC	C
15. Solve equations with variable exponents using logarithms																	A2	CA	PC	C
16. Solve exponential and logarithmic equations and inequalities.																	A2		PC	C
17. Demonstrate that the exponential and logarithmic functions are inverse functions.																	A2	CA	PC	C
J. Trigonometric functions																				
1. Find linear and angular velocities																			PC	C
2. Find the values of expressions involving sine and cosine													G				A2	CA	PC	C
3. Find the values of other trigonometric functions																	A2	CA	PC	C
4. Find the values of expressions involving trigonometric functions																	A2	CA	PC	C
5. Use a calculator to find values of trigonometric functions													G				A2	CA	PC	C
6. Find the amplitude and period for variations of the sine and cosine function																	A2	CA	PC	C
7. Use trigonometric identities to simplify and/or evaluate expressions																	A2	CA	PC	C
8. Verify trigonometric identities using various methods																	A2	CA	PC	C
9. Solve trigonometric equations																	A2	CA	PC	C

10. Find the values of the six trigonometric functions of an angle in standard position given a point on its terminal side																		A2	CA		PC	C		
11. Find the exact values of the six trigonometric functions of special angles																			A2	CA		PC	C	
12. Find decimal approximations for the values of the six trigonometric functions of any angle																			A2	CA		PC	C	
13. Find the amplitude, period, and phase shift for a trigonometric function																			A2	CA		PC	C	
14. Write equations for the trigonometric functions given the amplitude, period, and phase shift																			A2	CA		PC	C	
15. Evaluate inverse trigonometric functions																			A2	CA		PC	C	
16. Find principal values of inverse trigonometric functions																			A2	CA		PC	C	
17. Write equations for inverses of trigonometric functions																			A2	CA		PC	C	
18. Identify and use reciprocal identities, quotient identities, Pythagorean identities, and symmetry identities																			A2	CA		PC	C	
19. Use the basic trigonometric identities to verify other identities																			A2	CA		PC	C	
20. Use the sum and difference identities for sine, cosine, and tangent functions																			A2	CA		PC	C	
21. Use the double- and half-angle identities for the sine, cosine, and tangent functions																			A2	CA		PC	C	
<b>K. Vectors and polar coordinates</b>																								
1. Find equal, opposite, and parallel vectors																						PC		
2. Find ordered pairs that represent vectors																						PC		
3. Convert from polar coordinates to rectangular coordinates and vice versa																						PC		
4. Write the polar form of a linear equation																						PC		
5. Change complex numbers from rectangular to polar form and vice versa																						PC		
<b>L. Sequences and series</b>																								
1. Find the next term in a sequence by looking for a pattern.											6	PA	Aa	Ab	A1					A2	CA		PC	C
2. Find the nth term of an arithmetic sequence and find the position of a given term in an arithmetic sequence.														Ab	A1					A2			PC	C
3. Find arithmetic means.												PA	Aa	Ab	A1					A2			PC	
4. Differentiate between a sequence and a series.																				A2			PC	C
5. Find the sum of an arithmetic series.																							PC	C
6. Find specific terms in an arithmetic series.														Ab	A1	G				A2			PC	C





R. Solve problems involving right triangles using right triangle trigonometry																			G		A2	CA			PC	C	
S. Solve triangles and problems using the Law of Sines & Cosines																			G		A2	CA			PC		
T. Solve problems involving permutations, circular permutations, combinations																									PC		
U. Solve problems involving simple harmonic motion																									PC		
V. Solve problems using vectors and right triangle trigonometry																									PC		
W. Apply the derivative to solve problems																										C	
X. Use integration to solve problems																										C	
Y. Apply the definite integral to solve problems																										C	
<b>V. Measurement/Geometry</b>																											
A. Linear																											
1. Measuring Length/Width			1	2	3	4	5	6	PA	Aa	Ab	A1	G														
2. Recognizing Standard Measure	K5		1	2	3	4	5	6	PA	Aa	Ab	A1	G														
3. Recognizing Metric Measures			1	2	3	4	5	6	PA	Aa	Ab	A1	G														
4. Estimating Distance					3	4	5	6																			
5. Converting					3	4	5	6																			
6. Add/Subt. Measurements					3	4	5	6													a2	A2	CA		PC		
7. Recognizing International System (SI) Prefixes					3	4	5	6													a2	A2	CA		PC		
8. Finding Perimeter			1	2	3	4	5	6	PA	Aa	Ab	A1	G	a2	A2	CA									PC		
9. Calculating Area						4	5	6	PA	Aa	Ab	A1	G	a2	A2	CA									PC	C	
10. Finding Square measures						4	5	6	PA	Aa	Ab	A1	G	a2	A2	CA									PC		
11. Using the Distance Formula										Aa	Ab	A1	G	a2	A2	CA									PC	C	
B. Weight																											
1. Understanding Standard weight			1	2	3	4	5	6																	A2		PC
2. Understanding Metric Weight					3	4	5	6																	A2		PC
3. Converting					3	4	5	6				A1												A2		PC	
4. Add/Subt. Weights					3	4	5	6																A2		PC	
C. Capacity																											
1. Finding Volume					3	4	5	6	PA	Aa	Ab	A1	G	a2	A2	CA									PC	C	
2. Understanding Metric					3	4	5	6	PA	Aa	Ab	A1	G	a2	A2	CA									PC	C	
3. Calculating Standard					3	4	5	6	PA						a2	A2	CA								PC	C	
4. Converting					3	4	5	6																			
D. Temperature																											
1. Understanding Fahrenheit			1	2	3	4	5	6				A1														PC	C
2. Understanding Celsius				2	3	4	5	6				A1				A2										PC	C
3. Converting							5	6				A1				A2										PC	C
E. Time																											
1. Reading a Clock	K5		1	2																							
2. Adding Time			1	2	3	4	5	6																			
3. Reading a Calendar	K5		1	2																							
4. Converting			1	2	3	4	5	6																			
F. Money																											
1. Counting Penny, nickels, dimes	K5		1	2	3	4	5																				
2. Counting Quarters, Half Dollars			1	2	3	4	5																				
3. Counting dollars	K5		1	2	3	4	5																				
4. Budgeting																											

G. Shapes/Angles																
1. Identify Shapes	K5	1	2	3	4	5	6	PA					G			
2. Measuring angles with a protractor													G			
3. Change radian measure to degree measure and vice versa														A2	CA	PC
4. Identify coterminal angles														A2	CA	PC C
H. Use equations with variables to solve perimeter and area problems								PA	Aa	Ab	A1	G	a2	A2	CA	PC C
I. Use midpoint and distance formulas using number line and coordinate plane									Aa	Ab	A1	G	a2	A2	CA	PC C
J. Use Pythagorean Theorem									Aa	Ab	A1	G	a2	A2	CA	PC C
K. Identify and draw models of points, lines, and planes																
L. Demonstrate 7 basic constructions using straight edge and compass																PC C
M. Use types of angles and pairs of angles to solve problems																
N. Use properties of parallel and perpendicular lines to solve problems														G	A2	
O. Understand and practice the concepts of informal and indirect proofs														G		
P. Understand and practice the concepts of two column proofs using deductive thinking.														G		
Q. Identify and classify types of triangles														G		
1. Use triangle postulates to prove triangle congruence and similarity														G		
2. Use proportions to solve similar triangles														G		
3. Understand and solve problems using medians, altitude, and bisectors														G		
4. Use properties of right triangles to solve problems														G	A2 CA	PC C
5. Use laws of sine and cosine to solve problems														G	A2 CA	PC C
R. Recognize and apply properties of polygons														G	CA	PC C
1. Work problems using various types of parallelograms and quadrilaterals														G	CA	PC C
2. Find angle measurements and areas of regular plane figures														G	CA	PC C
S. Identify and use properties of circles and lines intersecting circles														G	CA	PC C
T. Use relationships and properties of angles, arcs, chords, tangents, secants, and sectors to solve problems involving circles														G	CA	PC C
U. Identify types and parts of three-dimensional figures														G		
1. Find lateral area, total area, and volume of pyramids, cones, cylinders, and prisms														G		PC C
2. Find area and volume of spheres														G		PC C
<b>VI. Graphing</b>																
A. Read various types of graphs																
1. Understanding Bar Graphs		1	2	3	4	5	6									S

2. Understanding Line Graphs		1	2	3	4	5	6												
3. Understanding Pictographs	K5	1	2	3	4	5	6												
4. Understanding Order pairs						5	6												
5. Understanding Circle Graphs						5	6												
B. Graph a relation, state its domain and range, and determine if the relation is a function								PA	Aa	Ab	A1		a2	A2	CA		PC	C	
C. Identify equations that are linear and graph them								PA	Aa	Ab	A1	G	a2	A2	CA		PC	C	
1. Use the slope and intercepts to graph a line								PA	Aa	Ab	A1		a2	A2	CA		PC	C	
2. Determine if two lines are parallel, perpendicular, or neither								PA	Aa	Ab	A1		a2	A2	CA		PC	C	
3. Write the equation of a line that is parallel or perpendicular to the graph of a given equation									Aa	Ab	A1	G	a2	A2	CA		PC	C	
D. Identify and graph special functions (direct variation, constant, identity, absolute value, and greatest integer)											A1	G	a2	A2	CA		PC	C	
E. Solve a system of equations by graphing									Aa	Ab	A1		a2	A2	CA		PC	C	
F. Graph a system of inequalities									Aa	Ab	A1		a2	A2	CA		PC	C	
G. Graph trigonometric functions and their inverses														A2	CA		PC	C	
H. Use a graphing calculator to graph a function within a given domain and range														A2	CA		PC	C	
Sketch the graph of a rational function.															CA		PC	C	
Given the graph or the equation of a function, identify the domain and range of the function. Include functions with discontinuities.															CA		PC	C	
Use Venn diagrams to show relationships						6						G			CA				
Use number line to show sets of numbers and to graph inequalities								PA	Aa	Ab	A1		a2	A2					
Graph points in all quadrants of coordinate plane						6	PA	Aa	Ab	A1	G	a2	A2	CA			PC		
Find and graph solutions for relations and functions									Aa	Ab	A1		a2	A2			PC	C	
Identify range, domain, and inverse									Aa	Ab	A1		a2	A2	CA		PC	C	
Solve equations in two variables by graphing									Aa	Ab	A1	G		A2			PC	C	
Make and use a circle graph														A2			PC	C	
Identify and draw reflections, translations, rotations, and symmetry												G		A2			PC	C	
Create and draw three dimensional figures on three dimensional axes																			
Use scale factors for enlargement, reduction, and congruence												G							
Determine the equation of a parabola from given information about the graph													a2	A2	CA		PC		
I. Investigate symmetry of functions using a graphing calculator														A2	CA		PC	C	
J. Graph a function and its inverse														A2	CA		PC	C	
K. Graph rational functions														A2	CA		PC	C	
L. Graph polynomial, absolute value, and radical inequalities														A2	CA		PC	C	

M. Add and subtract vectors graphically																		PC
N. Graph polar coordinates and simple polar equations																		PC
O. Graph conic sections													A2					PC
P. Graph exponential functions													A2	CA				PC C
Q. Graph logarithmic equations													A2	CA				PC C
R. Perform graphical iteration on a linear function																		PC
S. Plot the orbit of a complex number under iteration in the complex plane																		
Determine if a point escapes or is a prisoner under iteration																		
Determine if a Julia set is connected or is a dust of points																		
Determine if a complex number is inside the Mandelbrot set																		
Determine the color of a point outside the Mandelbrot set																		
<b>VII. Probability/Statistics</b>																		
A. Averaging 2 or more numbers			3	4	5	6	PA	Aa	Ab	A1	G	a2	A2	CA	S			
B. Find the median, mode, and mean of sets of data						6	PA	Aa	Ab	A1	G	a2	A2	CA	S			
C. Use the median, mean and mode to interpret data						6	PA	Aa	Ab	A1					S			
D. Draw a scatter plot and find the prediction equation												a2	A2	CA	S			
E. Read and interpret data from line plots and stem-and-leaf plots						6	PA	Aa	Ab	A1			A2		S			
F. Find the range and interquartile range for a set of data							PA						A2		S			
G. Find the standard deviation for a set of data													A2		S			
H. Explore simple probability problems and odds problems							PA	Aa	Ab	A1			A2		S			
I. Use area to solve problems involving geometric probability													A2		S			
J. Solve problems using the Basic Counting Principle													A2		S			
K. Solve problems involving permutations and combinations								Aa	Ab	A1			A2		S			