



ACACIA MATH VERTICAL ALIGNMENT

“i”= introducing, “d”= developing, “r”= revising, “m”= mastering

Whole Numbers	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Ordinal numbers	i	i	d	r	m			m						
Numbers and place value to 20			i	d	r	m								
Numbers and place value to 100			i	d	d/m	m/r								
Numbers and place value to 1000					i	d	r	m						
Numbers and place value to 10,000						i	d	m						
Numbers and place value to 10,000,000							i/d	d/m						
Approximation to nearest 10/100						i	r	m						
Approximation to nearest 100/1000						i	r	m						
Operations on Whole Numbers	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Add/Subt of 2-digit numbers within 20				i	d	r/m			r					
Add/Subtr of 2-digit numbers within 100				i	d	d	m	m	r					
Add/subtr of 3-digit numbers					i	d	m	m	r					
Add/subt of 4-digit numbers						i	d	m	r					
Mult/Div concepts				i	i	d	d	d	d	r	r	r	m	

Mult/div of 2's and 3's				i	d	m	r	r	r					
Operations on Whole Numbers	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Mult/div of 4's ,5's and 10's				i	d	m	r	r						
Mult/div of 6's, 7's, 8's and 9's						i/m	r	r						
Mult/Div of 3-digit by 1 digit numbers						i	d/m	m	r					
Estimation in add/subt/mult/div						i	d	d	m	m	r			
Approximation & Estimation						i	d	d	m	m	m	r		
Factors							i	d	d	m	r	r	r	
Multiples							i	d	d	m	r	r	r	
Order of Operations							i	d	d	d	m	r	r	
Prime Factorization								i	d	d	m	r	r	
Exponential Notations								i	d	d	m	r	r	
Greatest Common Factor(GCF)								i	d	d	m	r	r	
Least Common Multiples(LCM)								i	d	d	m	r	r	
Square Roots & Cube roots										i	d	m	r	
Absolute numbers and Values										i	d	m	r	
Additive Inverse of Integers										i	d	r	m	
4 Operations of whole numbers							i	d	m	r	r	r	r	
Decimals							i	d	d	m	r	r	r	
4 Operations of Decimals							i	d	d	m	r	r	r	

Rounding numbers to decimal places								i	d	m	r	r	r	
Percentage								i	d	d	m	r	r	
Ratio, Rate and Speed								i	i/d	d	m	r	r	
Graphs/Data Handling	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Bar Graphs			i	i	i	d	d	d	d	m	r	r	r	
Pictographs			i	d	d	d	d	d	d	d	m	r	r	
Line Graphs						i	d	d	d	d	m	r	r	
Presenting Data				i	i	i	d	d	d	d	d	m	r	
Organizing and Analyzing Data				i	i	d	d	d	d	d	m	r	r	
Coordinates and Linear Graphs							i	d	d	d	m	m	r	
Statistics and Probability	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Probability						i	d	d	d	d	d	m	r	
Data display						i	d	d	d	d	m	r	r	
Mean, median, and mode							i	d	d	d	m		r	
Cumulative frequency											i	m	r	
Fractions	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Halves and quarters			i	d	d	m								

Writing Fractions					i	d	m							
Fraction of a Set					i	d	d	d	r	m				
Fractions	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Fraction of a Whole					i	d	d	d/m	r					
Equivalent Fractions					i	d	d	d/m	m	r				
Add/Subt of related fractions						i	d	d	m	r	r	r	r	
Add /Subt of unrelated fractions							i	d	d/m	m	m	r	r	
Add/ Subt of mixed numbers							i	d	d/m	m	m	r	r	
Fraction Multiplication/Division							i	d	d/m	m	m	r	r	
Mixed Numbers and improper fractions							i	d	d/m	m	m	r	r	
Fractions and Money						i	d	d	d	d/m	m	r		
Comparing and ordering unlike fractions						i	d	d	d	d	m	r	r	
Word Problems Fraction						i	d	d	d	d	m	m	r	
Div of a fraction by a whole number						i	d	d	d	d	m	r	r	
Informal division of fractions								i	d	d	m	r	r	
Product of a fraction and a whole number						i	d	d	d	d	m	r	r	
Product of Fractions								i	d	d	m	r	r	

Mental Math	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
add/subt of 1-digit numbers				i	d	m								
add/subt of 2- digit numbers				i	i	d	d	m	m					
add/subt of 3-digit numbers and 1's, 10's, and 100's					i	d	m	r	r					
Make 100					i	d	m	r	m					
add/subtr of all 2-digit numbers					i	d	m	r	m					
Mult of 10's and 100's by a 1-digit number					i	i/d	d	m	m					
Div of up to 4 digits by a 1-digit number, no remainder						i/d	d	d	m	m	m	r	m	
Mult/div of whole numbers by 10's, 100's, 1000's							i	d	d	m	m	r	m	
Mult/div of numbers up to 3 decimal places by 10's, 100's, 1000's								i	d	m	m	r	m	
Word Problems	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Making add/subt stories				i	i	d	d	m						
One-step word problems			i	i	i	d	d	m	r					
Two-step word problems					i	d	d	r	m					
Multi-step word problems							i	d	m					

Time	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Time to the half-hour				i	d	m	r	r						
Time to minutes				i	d	m	r	r						
Time intervals, 12-hour clock				i	d	m	r	r						
Conversion of time units using multiplication						i	i	d	d	r	m			
Add/Subt of compound units						i	i	d	d	r	m			
Mult/Div of compound units							i	d	d	r	m			
Conversion using division and fractions								i	d	r	m			
Conversion using decimals								i	d	m	r			
Time intervals, 24-hour clock									i	d	m			
Money	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Money, add/subtr				i	d	d	d	d	d	m	r			
Add/Subt of compound units					i	d	d	d	d	r	m			
Add/Subt of money in decimal notation					i	d	d	d	d	m	r			
Mult/div of compound units						i	d	d	d	r	m			

Geometry	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Common 2D Shapes			i	d	d	m	r	r	m					
Common 3D Shapes				i	d	d	d	d	d	m	m	m	r	
Flat and curved faces				i	i	d				i/d	d	r	m	
Making Shapes					i	d			d	d	m	r	m	
Completing patterns			i	d	d	m								
Symmetry					i	d	d	d						
Tessellation							i							
Prisms, pyramids, nets of solids							i		d	r	m			
Perpendicular and parallel lines						i	i	d	d	r	m			
Angles						i	d	d	d/m	m	r			
Measuring Angles						i	d	d	d	m	r			
Finding unknown angles							i	d	d	d	m	m	r	
Quadrilateral							i	d	d	m	m	m	r	
Sum of angles of a quadrilateral							i	d	d	d	m	m	r	
Triangles						i	i	d	d	r	m			
Sum of angles of a triangle							i	d	d	d	m	r	m	
Isosceles and equilateral triangles						i	d	d	d	m	m	r	m	
Drawing triangles								i	d	d/m	m	m		

Circles							i	d	d	m	m	r	m	r
Geometry	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Parallelograms, Rhombuses and Trapezoids						i	i	d	d	d	d	r	m	
Drawing Parallelograms and Rhombuses						i	d	d	d	d	d	r	m	
Solid Figures						i	d	d	d	d	d	r	m	
Nets							i	d	d/m	m	m	m	r	
Cong/Sym Figures							i	d	d	m	m	m	r	
Volumes and surface areas of solids							i	d	d	d	m	m	r	m
Coordinate Geometry										i	d	m	r	m
Pythagoras Theorem											i/d	m	m	m
Length, Mass, and Capacity	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Measurement in non-standard units			i	i	d	m								
Measurement in meters, centimeters, kilograms, grams					i	d	d	m	r					
Measurement in liters					i	d	d	d	r	m				
Add/subt/mult/div of single units					i	d	d	d	r	m				
add/subt of compound units						i	d	d	m	r				

mult/div of compound units						i	i/d	d	r	m				
Conversion using multiplication						i	d	d	d	m	m	r	m	
Conversion using division and fractions								i	d	m	m	r	m	
Conversion using decimals								i	d	d	d	m	r	
Algebra	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Negative Numbers							i	d	d	d	d	r	m	
Introducing Algebra								i	i	d/m	d	d	m	
The Use of Letters									i	d	m	r	m	
Basic Notation in Algebra									i	d	m	m	r	
Exponential Notation in Algebra										i	d	m	r	
Evaluation of Algebraic Expressions and formulas										i	d	m	r	r
Algebraic Manipulation										i	d	r	m	r
Simple equation in one variable							i		d	d	d	d	m	r
Simultaneous equations											i/d	d/m	m	r
Simple Algebraic Fractions											i	d/m	m	r
AP Statistics	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Normal Distribution														i/d
Random Variables														i/d

Binomial and Geometric Distribution														i/d
Linear Regression														i/d
Confidence and Significance Test														i/d
Experimental Design														i/d
AP Calculus	K3	K4	K5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11-12
Limits and Continuity														i/d
Differentiation														i/d
Implicit Differentiation														i/d
Integration and Accumulation of Change														i/d
Differential Equations														i/d
Application of Integration														i/d