

	6th grade	7th grade	8th grade
ORDER	Geometry → Ratios → Number Systems → Statistics	Proportional Relationships → Number System → Geometry → Probability	Functions → Geometry → Number Systems → Statistics
Geometry	area of parallelogram	area and circumference of circle	congruence of polygons
	area of triangle	angles (vertical, supplementary, complementary, adjacent)	similarity of polygons
	nets (prisms and pyramids)	surface area and nets (cone, cylinder, sphere)	translation, rotation, dilation, reflection
	surface area (prisms and pyramids)	volume (cone, cylinder, sphere)	sum of angles in a triangle
Number System	volume (prisms and pyramids)	scale drawing/model	Pythagorean theorem
	add, subtract, multiply, and divide by fractions	all standard algorithms	square roots
	add, subtract, multiply decimals	add, subtract, multiply, and divide rational numbers	imaginary numbers
	negative numbers/absolute value (intro)	rational numbers vs irrational numbers	exponent rules
Ratios/ Proportional Relationships/ Expressions & Equations/ Functions	coordinate plane (intro)		
	ratio/rate/equivalent ratios/percents	proportional relationships	functions (intro)
	diagrams (double number lines, ratio table)	equations of proportional relationships	solve linear equations
	conversions	graphing proportional relationships	y-intercept and slope
	exponents (intro)	percents	solve inequalities
	variables and 1 step equations (intro)	equivalent expressions	
	distributive property	solve 1 and 2 step equations	
Statistics and Probability	inequalities (intro)		
	statistical questions	probability models (list, tree diagram, tables)	bivariate data
	measures of center (mean, median, mode)	probability and chance	scatter plots
	measures of spread (range, MAD)		
	graphs (dot plots, histograms, box plots)		