CURRICULUM CROSSWALK FOR MAJOR TOPICS IN THE COMMON CORE MATH STANDARDS   F - fluently   C - concretely

Topic	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Place Value	Count to 100 by 1's, 10's; tens place value	Count to 120; tens, ones place value	C – count to 1,000; hundreds place value	Rounding 10's, 100's; multi-digit arithmetic	Hundredths; expanded form for multi-digit whole numbers	Left/right powers of 10; writing numbers in expanded form			Scientific notation
Add/ Subtract	F $1 \rightarrow 5$ C $\rightarrow 10$	F $\rightarrow 20$ C $\rightarrow 100$	F $\rightarrow 100$ C $\rightarrow 1,000$ Properties of Operations	F $\rightarrow 1,000$	Add, subtract multi-digit whole numbers	Add, subtract fractions	Add, subtract decimals	Add, subtract rational numbers	Add, subtract scientific notation
Multiply/ Divide			Use arrays to multiply	Multiply, divide within 100; properties of multiplication and division	Multiply 4 digits X 1 digit; 2 digits X 2 digits; 4 digit dividend X 1 digit divisor; division with remainders	"Scaling" Multiply, divide fractions with whole numbers	Multiply, divide fractions with fractions; GCF 2 #'s < 100 LCM 2 #'s < 12	Multiply, divide rational numbers	Multiply, divide scientific notation
Fractions		1/2, 1/4 parts of a circle	1/2, 1/4, 1/3	Understand fractions as numbers; locate fractions on number line	Compare fractions; add, subtract mixed with like denominators; multiply whole numbers/fractions	3/4 = 3÷4 Equivalent fractions		Fractions associated with unit rates	
Decimals					Understand decimals and read to the hundredths place	Rounding to hundredths	Add, subtract, multiply, divide fluently	Convert rational numbers to a decimal	Convert rational numbers to a decimal
Unit Rates, %, Ratios							Use percents and unit rates to solve problems	Proportions, unit rates, multi-step problems, scale drawings, and equations	
Perimeter, Area, Volume				Perimeter; area by counting squares	Apply perimeter and area formulas for rectangles	Volume, units cubed, area with fractional lengths	Area, surface area, volume of prisms	Angle measures, area, surface area, and volume; circles	Volume - cylinder, cones, spheres
Measuring		Length, time (hr, 1/2 hr)	Length, time (5 minutes); money	Rulers (1/2, 1/4), volume, mass, time (minutes)	Time, volume, distance, mass; conversion of measurements	Convert measurements			

CURRICULUM CROSSWALK FOR MAJOR TOPICS IN THE COMMON CORE MATH STANDARDS   F - fluently   C - concretely

Topic	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Compare/ Order	Compare 2 objects by length and weight	Whole numbers	Two 3-digit numbers, using =,<,>	Fractions with same numerator or same denominator	Decimals to hundredths place, fractions with different denominators or numerators				Rational and irrational numbers
Shapes	2-D vs 3-D	Name common 2-D and 3-D	Attributes of common 2-D and 3-D	Families – polygon, rectangle, square	Angles, lines/segments, rays, parallel and perpendicular lines, symmetry.	Classify 2-D	Use nets to determine surface area for 3-D	Slice 3-D → 2-D; draw shapes with given conditions	Pythagorean Theorem, congruence and similarity, special angle measurements
Data Analysis		Represent and interpret data	Pictographs, bar graphs	Bar graphs, line graphs, scaled pictographs	Line plots using fractions	Points on a coordinate plane with 2 patterns	Dependent / Independent variables		Bivariate Data, proportional relationships, lines/linear equations, graphs, slopes
Expressions/ Equations		Add and subtract equations				Write and interpret equations	Write and evaluate one variable equations and inequalities	Write and solve word problems using equations and expressions for =, <, >	Solve linear equations, solve systems of equations
Statistics						Understand statistical variability	Random sampling, inferences, measures of central tendency		Functions: define, evaluate, compare; linear, non-linear; model relationships
Probability							Develop, use, evaluate simple and compound events; makes lists and diagrams		
Radicals/ Integers									Properties of radicals and integers, $^2\sqrt{}$, $^3\sqrt{}$