Pre-Algebra Curriculum Map

TOPIC	DURATION	MONTH(S)
Skills Launch: Review basic arithmetic skills	1 week	Aug
Whole numbers: Standard notation, arithmetic operations, rounding and estimating, applications, exponential notation, order of operations.	4 weeks	Aug/Sept
Integers and algebraic expressions: Number line and arithmetic operations, algebraic expressions, like terms, perimeter, solving equations	3 weeks	Sept/Oct
Polynomials: +,-, × polynomials, integers as exponents, solving basic equations	3 weeks	Oct
Fraction Notation (Multiply and Divide): Multiples, factorizations, fractions and fraction notation, simplifying, problems involving areas, reciprocals and division, solving equations containing fractions.	2 weeks	Nov
Fraction Notation (Addition, Subtraction and Mixed numbers):Least common multiples, more solving equations, mixed numbers, +,-,×,÷ of mixed numbers	2 weeks	Nov/Dec
Decimal Notations: +,-, ×, ÷ of decimals, fraction and decimal notation, estimating, solving equation, application and problem solving.	3weeks	Jan
Ratio and Proportion: Ratios, rates and unit prices, proportions, applications of proportions, geometric applications.	3 weeks	Jan
Percent Notation: solving problems using percent equations and proportions, application of percent, percent of change.	3 weeks	Feb
Probability: sample space, event, experiment, complement, compound event, mutually exclusive, tree diagram, independent, dependent, theoretical	3 week	Feb/Mar
Graphing and Statistics: Tables and pictographs, bar and line graphs, box-and-whisker, central tendency.	3 weeks	Mar/Apr
Geometry and measurements: perimeter and area, volume and capacity, angles and triangles, square roots and Pythagorean Theorem	2 weeks	Apr/May