Introductory Algebra Curriculum Map

TOPIC	DURATION	MONTH(S)
Skills Launch: Review arithmetic skills: factors, LCM, GCF, fractions, decimals, rounding, precent, exponents, and order of operations	5 weeks	Aug/Sep
Intro to Real Numbers and Algebraic Expressions: $+ \ - \times \div$ real numbers, properties, simplify expressions, order of operations	4 weeks	Oct
Solving Equations and Inequalities: solve one and two step equations, solve multi step equations, solve inequalities, 5 step problem solving strategy	3 weeks	Nov
Graph Linear Equations: ordered pairs, quadrants, graphing with x and y intercepts, slope, equations of lines, parallel and perpendicular lines	3 weeks	Nov/Dec
Polynomials: Integer exponents, scientific notation, combine like terms, distributive property, introduction to factoring polynomials	3 weeks	Jan
Systems of Linear Equations: two variable systems of linear equations, solve through substitution or elimination method, application and problem solving	3 weeks	Feb
Statistics: Scatter plots, associations, predictions, trend line equations, two-way tables, relative frequency	2 weeks	Feb/Mar
Geometric Transformation: Reflection, rotation, translation on the coordinate plane, scale factor and dilation, properties of transformations	2 weeks	Mar
Radicals and Pythagorean Theorem: square, square root, cube, cube root, estimate square root, Pythagorean theorem and its applications	2 weeks	Apr
Functions: Identifying linear vs non-linear functions, writing equation of linear functions, applying, and analyzing functions and graphs	2 weeks	Apr
Geometry: angle relationships, area circles, volume cylinders, cones, and spheres	2 weeks	May