

**30 Week Syllabus - Pre-Algebra**  
**Pre-Algebra by**  
**McDougal Littell**

Week #	Lesson #	Topic
1	1-1	Expressions and variables
	1-2	Powers and exponents
	1-3	Order of Operations
	1-4	Comparing and Ordering Integers
2	1-5	Adding Integers
	1-6	Subtracting Integers
	1-7	Multiplying and Dividing Integers
	1-8	The Coordinate Plane
3	2-1	Properties and Operations
	2-2	The Distributive Property
	2-3	Simplifying Variable expressions
4	2-4	Variables and Equations
	2-5	Solving equations
	2-6	Solving equations
	2-7	Decimal Operations and equations
5	3-1	Solving two step equations
	3-2	equations with like terms
	3-3	equations with variables on both sides
6	3-4	Inequalities
	3-5	Inequalities
	3-6	Multi-step inequalities
7	4-1	Factors and prime factorization
	4-2	GCF
	4-3	Equivalent fractions
	4-4	LCM
8	4-5	Rules of exponents
	4-6	Negative and zero exponents
	4-7	Scientific Notation
9	5-1	Rational numbers
	5-2	Adding and Subtracting like fractions
	5-3	Adding and Subtracting Unlike fractions
10	5-4	Multiplying fractions
	5-5	Dividing fractions
	5-6	Multiplicative inverse
	5-7	equations with rational numbers
11	6-1	ratios and percents
	6-2	writing and solving proportions
	6-3	cross product
12	6-4	Similar and congruent figures
	6-5	similarity
	6-6	scale drawings

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13	6-7	probability and odds
	6-8	Counting principle
14	7-1	percents and fractions
	7-2	percents and proportions
	7-3	percents and decimals
	7-4	percent equation
15	7-5	percent of change
	7-6	percent applications
	7-7	simple and compound interest
16	8-1	relations and functions
	8-2	linear equations
	8-3	using intercepts
17	8-4	slope of a line
	8-5	slope-intercept
	8-6	Writing linear equations
18	8-7	function notation
	8-8	systems of linear equations
	8-9	graphs of linear equations
19	9-1	square roots
	9-2	simplifying square roots
	9-3	Pythagorean theorem
	9-4	Real numbers
20	9-5	Distance and midpoint formulas
	9-6	special right triangles
21	10-1	triangles
	10-2	polygons and quadrilaterals
	10-3	areas of parallelograms and trapezoids
22	10-4	circumference and area of circle
	10-5	surface area
	10-6	surface area
23	10-7	volume
	10-8	volume
24	11-1	stem and leaf plot
	11-2	box and whisker plot
	11-3	data displays
25	11-4	collecting data
	11-5	interpreting data
	11-6	permutations
	11-7	combinations
26	12-1	polynomials
	12-2	adding and subtracting polynomials
27	12-3	multiplying polynomials

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	12-4	Multiplying binomials
	12-5	rules of exponents
	12-6	quadratic functions
28	12-7	exponential growth and decay
	12-8	sequences
29	13-1	angle relationships
	13-2	angles and parallel lines
	13-3	angles and polygons
30	13-4	translations
	13-5	reflections and symmetry
	13-6	rotations and symmetry
	13-7	dilations