

**30 Week Syllabus - Algebra and Trigonometry
Structure and Method - book 2
McDougal Littell**

Week #	Lesson #	Topic
1	1-1	Real numbers and graphs
	1-2	simplifying expressions
	1-3	properties of real numbers
	1-4	sums and differences
2	1-5	products
	1-6	quotients
	1-7	solving equations
	1-8	words into symbols
	1-9	problem solving with equations
3	2-1	solving inequalities
	2-2	solving combined inequalities
	2-3	problem solving
4	2-4	absolute value
	2-5	solving absolute value sentences
	2-6	Theorems and proofs
	2-7	Theorems
5	3-1	Open sentences - two variables
	3-2	linear equations
	3-3	slopes of lines
	3-4	finding equations of lines
6	3-5	systems of linear equations
	3-6	problem solving
	3-7	linear inequalities
	3-8	Functions
8	4-1	Polynomials
	4-2	laws of exponents
	4-3	multiplying polynomials
9	4-4	prime factorization
	4-5	factoring polynomials
	4-6	factoring quadratics
10	4-7	solving polynomial equations
	4-8	problem solving
	4-9	solving polynomial inequalities
11	5-1	quotients of monomials
	5-2	zero and neaative exponents
	5-3	scientific notation
12	5-4	rational algebraic expression
	5-5	products and quotients of rational expressions
	5-6	sums and differences of rational expresions
13	5-7	complex fractions
	5-8	fractional coefficients
	5-9	fractional equations

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14	6-1	roots and real numbers
	6-2	properties of radicals
	6-3	sums of radicals
15	6-4	binomials containing radicals
	6-5	equations containing radicals
16	6-6	rational and irrational numbers
	6-7	imaginary numbers
	6-8	complex numbers
	7-1	completing the square
17	7-2	quadratic formula
	7-3	discriminant
	7-4	equations in quadratic form
18	7-5	graphing quadratics
	7-6	quadratic functions
	7-7	writing quadratic functions
	8-1	direct variation
19	8-2	inverse and joint variation
	8-3	dividing polynomials
	8-4	synthetic division
	8-5	factor theorem
	8-6	Roots
	8-7	finding rational roots
	9-1	Distance and midpoint
21	9-2	circles
	9-3	parabolas
	9-4	ellipses
23	9-5	hyperbolas
	9-6	conics
	9-7	quadratics systems
	9-8	quadratic systems
24	9-9	three variables
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	16-5	determinants
25	16-7	expansion of determinants
	16-9	cramers rule
	10-1	rational exponents
	10-2	real number exponents
26	10-3	inverse functions
	10-4	logarithms
27	10-5	logarithms
	10-6	logarithms
	10-7	problem solving
	10-8	natural log

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28	11-1	Types of Sequences
	11-2	Arithmetic sequences
	11-3	Geometric sequences
29	11-4	Series and sigma notation
	11-5	sums of arithmetic and geometric series
	15-1	statistical data
	15-2	analyzing statistical data
30	15-3	Normal distribution
	15-4	correlation
	15-5	counting principals
	15-6	permutations
	15-7	combinations