

	<b>Algebra I Part 2</b>		<b>Curriculum Map</b>		<b>2009-2010</b>			
<b>Timeline</b>	<b>SLE</b>	<b>Text Reference</b>	<b>Specific Skill</b>	<b>Vocabulary</b>	<b>Assignment</b>	<b>Released Items</b>	<b>Instructional Strategies, Materials/A<sup>+</sup></b>	<b>Intervention</b>
2 days	SEI.2.AI.2 SEI.2.AI.8	Section 7.1 Activity 7.1 (p 404 #1-5)	Solve a linear system graphically.* Model a real-life problem with a linear system.	system of linear equations, linear system, solution of a system	McDougal Littell <u>Algebra I</u> pp 401-403 #12-34 even, 35, 36, 41, 42, 50, 52, 56, 59	06 2, 7, 13, 14, 18, 22, 42, 48, 51, 52, 57, 58 07 6, 52, 57	Question and answer, guided practice, warm-up transparency AlgScool C-10-1	RP7.1
3 days	SEI.2.AI.2 SEI.2.AI.8	Section 7.2	Solve a linear system by substitution.* Model a real-life problem with a linear system.		McDougal Littell <u>Algebra I</u> pp 408-410 #14-44 even, 35, 43, 48-51, 55, 60, 65, 68	06 2, 7, 13, 14, 18, 22, 42, 48, 51, 52, 57, 58 07 6, 52, 57	Question and answer, guided practice, warm-up transparency AlgScool C-10-3	RP7.2
3 days	SEI.2.AI.2 SEI.2.AI.8	Section 7.3	Solve a linear system by combinations.* Model a real-life problems with a linear system.	linear combination	McDougal Littell <u>Algebra I</u> pp 414 #8-30 even pp 414-417 #32-42 even, 43-51, 53-55, 60, 65, 70 Quiz 1 #1-10	06 2, 7, 13, 14, 18, 22, 42, 48, 51, 52, 57, 58 07 6, 52, 57	Question and answer, guided practice, warm-up transparency AlgScool C-10-2	RP7.3
4 days	SEI.2.AI.2 SEI.2.AI.8	Section 7.4	Choose the best method to solve a system of equations.* Model real-life problems with linear systems.		McDougal Littell <u>Algebra I</u> pp 421-422 #10-38 even pp 422-424 #40-48 even, 49-51, 61-66	06 2, 7, 13, 14, 18, 22, 42, 48, 51, 52, 57, 58 07 6, 52, 57	Question and answer, guided practice, warm-up transparency AlgScool C-10-5	RP7.4
2 days	SEI.2.AI.2 SEI.2.AI.8	Section 7.5	Identify linear systems with 0, 1, or 2 solutions.* Model real-life problems with linear systems.		McDougal Littell <u>Algebra I</u> pp 429-431 #12-17, 18-28 even, 30-33, 36-38, 43-48	06 2, 7, 13, 14, 18, 22, 42, 48, 51, 52, 57, 58 07 6, 52, 57	Question and answer, guided practice, warm-up transparency	RP7.5
3 days		Chapter 7	Review and test					Puzzle Page pp 440-441 Chapter Review
2 days	LA.1.AI.3	Section 8.1	Use properties of exponents to multiply exponential expressions.* Use power to model real-life problems.	exponents, base, power	McDougal Littell <u>Algebra I</u> p 453 #22=58 453-455 #59-75, 77, 82, 83, 90, 95, 100, 105	07 33	Question and answer, guided practice, warm-up transparency AlgScool D-11-1	RP8.1

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1 days	LA.1.AI.3	Section 8.2	Evaluate powers that have zero and negative exponents. Graph exponential functions.	exponential function	McDougal Littell <u>Algebra I</u> pp 459-460 #14-44 even, 46-48, 50-62 even pp 459-461 #15-45 odd, 51-63 odd, 66-69, 71-75	07 33	Question and answer, guided practice, warm-up transparency	RP8.2
2 days	LA.1.AI.3 LA.1.AI.4	Section 8.3	Use division properties of exponents to simplify.* expression, evaluate powers, and find a probability.		McDougal Littell <u>Algebra I</u> p 466 #20-48 even pp 467-469 #49-58, 62-65, 70, 75, 80, 85 Quiz 1 #1-24	06 4, 60, E 07 33	Question and answer, guided practice, warm-up transparency AlgScool D-11-6 <b>A+ Create mnemonic for rules of expressions</b>	RP8.3
4 days	LA.1.AI.3 LA.1.AI.4	Section 8.4	Use scientific notation to represent numbers.* Use scientific notation to describe real-life situations.	scientific notation	McDougal Littell <u>Algebra I</u> pp 473-475 #16-56 even, 61, 64, 65, 70, 75, 78, 80, 82	06 4, 60, E 07 33	Question and answer, guided practice, warm-up transparency AlgScool D-11-2	RP8.4
2 days		Chapter 8	Review and test					Puzzle Pages pp 497-498 Chapter Review
1 day	NLF.4.AI.4 DIP.5.AI.7	Activity 8.5 and 8.6	Compare and contrast linear vs. exponential growth. Investigate exponential decay.	linear growth model, exponential growth model, exponential decay	McDougal Littell <u>Algebra I</u> p 476 #1-9 p 483 #1-4	07 3, 10, 30, 50, D	<b>A+ Investment Activity</b>	RP8.5, RP8.6
1 day	DIP.5.AI.7		Compare and contrast linear vs. non-linear graphs. Interpret graphs			07 3, 50		
3 days	NLF.4.AI.3 NLF.4.AI.5	Section 9.1	Evaluate approximate square roots.* Solve a quadratic equation by finding square roots.*	square root, positive/negative square roots, radicand, perfect squares, irrational numbers, radical expression, quadratic equation, standard form, leading coefficient	McDougal Littell <u>Algebra I</u> pp 507-510 #23, 26, 29, and every 3rd problem through #77, 79, 81, 87, 95, 96, 104, 107, 110, 111	06 31 07 42, 49	Question and answer, guided practice, warm-up transparency	RP9.1
2 days	LA.1.AI.8 NLF.4.AI.5	Section 9.2	Use properties of radicals to simplify expressions. Use quadratic equations to solve real-life problems.	simplest form	McDougal Littell <u>Algebra I</u> pp 514-516 #10-52 even, 53, 54, 58-60, 65, 70, 74, 75	06 49 07 39, 42	Question and answer, guided practice, warm-up transparency AlgScool D-13-1	RP9.2

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1 day	LA.1.AI.3 NLF.4.AI.2 NLF.4.AI.4 NLF.4.AI.5	Section 9.3 and Activity 9.3 (p 517 #1-10)	Sketch the graph of a quadratic function. Use quadratic models in real-life settings.	quadratic function, parabola, vertex, axis of symmetry	McDougal Littell <u>Algebra I</u> pp 521-522 #24-64 multiples of 4 pp522-524, #65, 66, 69-71, 76, 84, 86, 90, 94, 100 Quiz 1 #1-25	06 31 07 10, 20, 27, 30, 33, 38, 42, 58, D	Question and answer, guided practice, warm-up transparency <b>A+</b>	RP9.3
3 days	NLF.4.AI.3 NLF.4.AI.5	Section 9.4	Solve a quadratic equation graphically.* Use quadratic models in real-life settings.	roots	McDougal Littell <u>Algebra I</u> pp 529-531 #18-44 even, 52, 57, 58, 65, 72-82 even, 83	06 31 07 42, 49	Question and answer, guided practice, warm-up transparency AlgScool D-13-2, D-13-3	RP9.4
3 days	NLF.4.AI.3 NLF.4.AI.5	Section 9.5	Use quadratic formula to solve a quadratic equation.* Use quadratic models for real-life situations	quadratic formula	McDougal Littell <u>Algebra I</u> p 536 #24-52 even pp 537-538 #54-80 even, 82-84, 87-90, 92-102 even	06 31 07 42, 49	Question and answer, guided practice, warm-up transparency AlgScool D-13-5, D-14-3 <b>A+ Song for formula</b>	RP9.5
3 days		Chapter 9	Review and test					Puzzle Pages pp 566-567 Chapter Review
			<b>End of First Semester</b>					
2 days	LA.1.AI.5 SEI.2.AI.8	Section 10.1	Add/subtract polynomials. Use polynomials to model real-life situations.	polynomial, standard form, degree, degree of polynomial, monomial, binomial, trinomial	McDougal Littell <u>Algebra I</u> pp 580-582 #20-62 even, 63-66, 70, 75, 80, 85	06 2, 7, 13, 14, 22, 32, 38, 42, 48, 51, 52, 55, 56, 57, 58, C 07 43, 47, 52, 54, 57, 59	Question and answer, guided practice, warm-up transparency AlgScool A-2-1, D-11-3	RP10.1
3 days	LA.1.AI.5 SEI.2.AI.8	Section 10.2	Multiply two polynomials.* Use polynomials multiplication in real-life situations.	FOIL	McDougal Littell <u>Algebra I</u> pp 587-589 #18-46 even, 54-57, 60, 65, 70, 73, 75, 80, 85	06 2, 7, 13, 14, 22, 32, 38, 42, 48, 51, 52, 55, 56, 57, 58, C 07 43, 47, 52, 54, 57, 59	Question and answer, guided practice, warm-up transparency AlgScool D-11-4 <b>A+ Model Box method FOIL</b>	RP10.2

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2 days	LA.1.AI.5 SEI.2.AI.8	Section 10.3	Use and apply special product patterns, i.e., $(a+b)(a-b)$ , $(a+b)^2$ and $(a-b)^2$ .	special products	McDougal Littell <u>Algebra I</u> p 593 #15-35 pp 593-596 #36-52, 56-58, 65, 70, 75, 80, 81 Quiz 1 #1-17	06 2, 7, 13, 14, 22, 32, 38, 42, 48, 51, 52, 55, 56, 57, 58, C 07 43, 47, 52, 54, 57, 59	Question and answer, guided practice, warm-up transparency AlgScool D-11-5	RP10.3
2 days	NLF.4.AI.3	Section 10.4	Solve a polynomial in factored form.* Relate factors and x-intercepts.	factored form, zero-product property	McDougal Littell <u>Algebra I</u> pp 600-602 #20-42 even, 44-56, 59, 60, 65, 70, 75, 80-82	07 49	Question and answer, guided practice, warm-up transparency AlgScool D-12-1 <b>A+ Yarn to model</b>	RP10.4
3 days	NLF.4.AI.1 NLF.4.AI.3	Section 10.5	Factor a quadratic expression of the form $x^2 + bx + c$ .* Solve quadratic equations by factoring.*	factor	McDougal Littell <u>Algebra I</u> pp 607-608 #12-46 even, 52, 53, 56-58 pp 607-609 #13-47 odd, 54, 55, 59-62, 65-67, 75, 80, 85, 90, 95, 96	06 6, 11, 24, 25, 47, 52, 07 4, 15, 32, 49, 53	Question and answer, guided practice, warm-up transparency AlgScool D-12-2, D-12-4, D-13-3	RP10.5
3 days	NLF.4.AI.1 LA.1.AI.6	Section 10.7	Use special product patterns to factor quadratic polynomials. Solve quadratic equations by factoring.*		McDougal Littell <u>Algebra I</u> pp 622-623 #18-62 even, 63, 64 pp 622-624 #19-61 odd, 65-75, 75, 80, 85, 90, 95	06 6,11, 24, 25, 47, 53 07 4. 15, 32, 53	Question and answer, guided practice, warm-up transparency AlgScool D-12-3	RP10.7
2 days		Chapter 10	Review and test					Puzzle Pages pp 634-635 Chapter Review
2 days	SEI.2.AI.5 SEI.2.AI.8	Section 11.1	Solve proportions.* Use proportions to solve real-life problems.	proportion, extremes, means, extraneous	McDougal Littell <u>Algebra I</u> pp 646-648 #18-40 even, 43, 47, 48, 50, 55, 60	06 2, 7, 13, 14, 22, 26, 30, 34, 42, 45, 48, 51, 52, 57, 58, 59, A, C 07 31, 36, 52, 57, 59, E	Question and answer, guided practice, warm-up transparency <b>A+</b>	RP11.1

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2 days	SEI.2.AI.5 SEI.2.AI.8	Section 11.2	Use equations to solve percent problems.* Use percent problems to solve real-life problems.	base number	McDougal Littell <u>Algebra I</u> pp 653-655 #10-12, 14-30 even, 31-35, 48-50, 55, 60, 65, 70, 72	06 2, 7, 13, 14, 22, 26, 30, 34, 42, 45, 48, 51, 52, 57, 58, 59, A, C 07 31, 36, 52, 57, 59, E	Question and answer, guided practice, warm-up transparency <b>A+ Bubble Gum Activity</b>	RP11.2
2 days	SEI.2.AI.6 SEI.2.AI.8	Section 11.3	Use direct and inverse variations to solve real-life situations.	inverse variation, constant of variation	McDougal Littell <u>Algebra I</u> pp 659-660 #12-36 even, 37, 38 pp 660-662 #39-50, 55, 60, 64, 68 Quiz 1 #1-9	06 2, 7, 13, 14, 22, 27, 42, 48, 51, 52, 57, 58, C 07 22, 48, 52, 57	Question and answer, guided practice, warm-up transparency AlgScool E-16-2, E-16-3 <b>A+ Create examples of direct and inverse</b>	RP11.3
2 days		Chapter 11	Review and test					Puzzle Pages pp 634-635 Chapter Review
4 days	LA.1.AI.8 LA.1.AI.9	Section 12.2	Add, subtract, and multiply radical expressions. Use radical expression in real-life situation.	conjugates	McDougal Littell <u>Algebra I</u> pp 719-720 #18-58 even pp 719-721 #19-57 odd, 60-65, 70, 73, 76, 79	06 49 07 39	Question and answer, guided practice, warm-up transparency AlgScool E-17-1, E-17-2, E- 17-3 <b>A+ Challenge p. 721, reaction times</b>	RP12.2
3 days	SEI.2.AI.7 SEI.2.AI.8	Section 12.5	Use the Pythagorean Theorem and its converse to solve real-life problems.*	Pythagorean Theorem, hypotenuse, legs, hypothesis, conclusion, converse	McDougal Littell <u>Algebra I</u> p 741 #13-27 pp 742-744 #33-39, 41-45, 50, 55, 60, 65, 70, 71 Quiz #1-10	06 2, 7, 13, 14, 22, 42, 40, 42, 48, 51, 52, 57, 58, C 07 52, 57, 59	Question and answer, guided practice, warm-up transparency AlgScool E-18-4 <b>A+ Investigation p. 737</b>	RP12.5
2 days	SEI.2.AI.7	Section 12.6	Find the distance or midpoint between two points.*	distance formula, midpoint	McDougal Littell <u>Algebra I</u> pp 748-750 #14-48 even, 49- 53, 56-61, 66-72 even	06 40	Question and answer, guided practice, warm-up transparency AlgScool E-18-4 <b>A+ Coordinate plane-- students model/measure distance</b>	RP12.6

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3 days	LA.1.AI.8 LA.1.AI.9 SEI.2.AI.7 SEI.2.AI.8		Solve problems involving formulas and radicals			06 2, 7, 13, 14, 22, 42, 40, 42, 48, 49, 51, 52, 57, 58, C 07 39, 52, 57, 59	Question and answer, guided practice, warm-up transparency	
2 days		Chapter 12	Review and test					Puzzle Pages pp 700-701, 769-770 Chapter Review
<b>POST TEST MATERIAL</b>			<b>GEOMETRY READINESS SKILLS</b>					
1 day			Read a ruler to the nearest 1/16 of an inch Measure lengths in feet and inches				Question and answer, guided practice, warm-up transparency <b>A+</b>	
1 day			Convert measurements.* Determine relationship between circumferences and diameter.*				Question and answer, guided practice, warm-up transparency <b>A+ coins, cans, etc</b>	
1 day	Geom M.3.G.5		Use formulas to determine area, perimeter, and volume.*	area, perimeter, volume			Question and answer, guided practice, warm-up transparency	
2 days	Geom LG.1.G.2		Use a protractor to measure and draw angles . Classify angles.*	protractor, right angle, acute angle, obtuse angle, straight angle	McDougal Littell <u>Geometry</u> Section 1.4		Question and answer, guided practice, warm-up transparency <b>A+</b>	
1 day	Geom LG.1.G.2		Identify angle pair relationships.*		McDougal Littell <u>Geometry</u> Section 1.6		Question and answer, guided practice, warm-up transparency <b>A+ Model angle types</b>	
1 day	Geom T.2.G.6 T.2.G.7		Write trigonometric ratios.*	sine, cosine, tangent	McDougal Littell <u>Geometry</u> Section 12.7	06 14, 38 07 54	Question and answer, guided practice, warm-up transparency <b>A+ Song SOHCAHTOA</b>	
2 days	Geom T.2.G.6 T.2.G.7		Solve for a missing side or angle using trigonometric ratios, including word problems.*		McDougal Littell <u>Geometry</u> Section 12.7	06 14, 38 07 54	Question and answer, guided practice, warm-up transparency	

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2 days		Geometry Readiness	Review and test					
			<b>End of Second Semester</b>					

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