ALGEBRA 2 PACING

Lesson	Objective	Days	Level
Chapter 1: Tools of Algebra		10	
1-1/1-2	Properties of algebra/Simplifying algebraic expressions	1	M/A
1-3	Solve advanced linear equations	2	D/T
1-4	Solve advanced linear inequalities	2	D/T
1-5	Solving absolute equations and inequalities	2	I/D
Ch 1	Quizzes/Test/Review	3	
Chapter 2: Functions, Equations, and Graphs		13	
2-1	Identify functions	1	D
2-2	Graph a linear equation given any form	1	D/T
	Write a linear equation given any information	1	D/T
2-3	Write and interpret direct variation equations	1	D
2-4	Write linear equations that model real-world data	2	D
2-5/2-6	Graph absolute value parent function	2	D/T
2-7	Graph linear inequalities	1	D
Ch 2	Quizzes/Test/Review	4	
Chapter 3: Linear Systems		11	
3-1	Solve a linear system by graphing	2	D
3-2	Solve a system of linear equations using substitution or elimination	3	D/T
3-3	Solve a system of linear inequalities	1	I
3-5	Graph points in 3-dimensions	1	Ι
Ch 3	Quizzes/Test/Review	4	
Chapter 5: Quadratic Equations and Functions		22	
	Identify quadratic functions and graphs	1	I/D
5-2/5-3	Graph a parabola	2	D/T
5-3	Use the vertex form of a quadratic function	2	D/T
5-7	Completing the square (only to rewrite in vertex form)	1	I/D
Ch 5	Quiz/Test/Review	2	
Part 1			
5-4	Recognize special products and factoring of quadratics	3	D/T
p. 266	Algebra 1 Review: Square Roots and Radicals	1	D
5-5	Solve a quadratic equation by factoring	2	D/T
5-6	Define and perform basic operations with complex numbers	3	I/D
5-8	Solve a quadratic equation by using the quadratic formula	2	D/T
Ch 5	Quizzes/Test/Review	3	
Part 2			

Chapter 6	: Polynomials and Polynomial Functions	14			
6-1	Polynomial Functions	1	`D		
6-2	Multiply to simplify polynomial expressions	2	D/T		
6-3	Divide to simplify polynomial expressions	2	D/T		
6-4	Solve polynomial functions by factoring	3	D/T		
	Recognize special products and factoring of cubic polynomials				
6-5	Rational Root Theorem (list possible roots and test)	2	I		
6-6	Fundamental Theorem of Algebra (find number of possible		I		
	complex roots) Mention with another lesson				
Ch 6	Quizzes/Test/Review	4			
Chapter 13: Periodic Functions and Trigonometry		10			
13-1 and	Periodic Function terminology and	1	D		
p. 717	Geometry Review: Special Right Triangles				
13-2	Find exact sine/cosine values for 0°, 30°, 45°, 60°, and 90°	2	D/T		
13-3	Radian measures	1	I/D		
13-4/13-5	Graph sine and cosine parent graphs <i>Amplitude and period only</i>	2	D/T		
	for accountability				
End of Semester 1					
13-6	Graph tangent function Include picture of graph with sine/cosine		I		
13-8	Define and evaluate reciprocal trigonometric functions	1	I		
Ch 13	Quizzes/Test/Review	3			
Chapter 14: Trigonometric Identities and Equations		7			
14-1	Trigonometric Identities Pythagorean Identity	1	I		
14-3	Right triangle trigonometric ratios (including reciprocal ratios)	1	I/D		
14-4	Law of Sines No ambiguous case – Don't worry about area	3	I/D		
14-5	Law of Cosines				
Ch 14	Test/Review	2			
Chapter 7	Chapter 7: Radical Functions and Rational Exponents 22				
_	Don't choose complicated problems				
p. 368	Algebra 1 Review: Properties of Exponents	2	D		
7-1	Simplify radical expressions	1	D/T		
7-2	Multiply and divide radical expressions	3			
7-3	Binomial radical expression operations	2	I/D		
1-3	Binomial radical expression operations				
7-4	Simplify expressions using the laws of exponents	2	D/T		
		2 2			
7-4	Simplify expressions using the laws of exponents	2	D/T		

7-6	Function operations	2	I/D		
7-7	Inverse relations and functions <i>Switch x and y and solve</i>	1	I		
7-8	Graphing square root and other radical functions <i>Vertical and</i>	1	I		
	horizontal translations only, no stretches				
	Graphing a cubic function		I/D		
Ch 7	Quizzes/Test/Review	3			
Part 2					
Chapter 8	Chapter 8: Exponential and Logarithmic Functions 15				
8-1	Exploring exponential models	2	I/D		
8-3	Logarithmic functions as inverses <i>No graphing- Just show graph</i>	2	I/D		
8-4	Properties of logarithms	3	I/D		
8-5	Exponential and logarithmic equations	2	I/D		
8-6	Natural logarithms <i>Include definition of e and Pert from 8-2</i>	2	I/D		
Ch 8	Quizzes/Test/Review	4			
Chapter 9: Rational Functions		14			
9-1	Inverse variation	1	I		
9-3	Rational functions and their graphs <i>In factored form</i>	2	I/D		
9-4	Simplify rational expressions <i>Keep factoring simple</i>	2	D/T		
9-5	Adding and subtracting rational expressions <i>Keep factoring simple</i>	3	I/D		
9-6	Solving rational equations	2	I		
Ch 9	Quizzes/Test/Review	4			
Chanter 1	12				
11-1	1: Sequences and Series Mathematical patterns	2	D		
11-1	Arithmetic sequences	2	D		
11-3	Geometric sequences	2	D		
11-4	Arithmetic series	2	I/D		
11-5	Geometric series	2	I/D		
Ch 11	Quizzes/Test/Review	2	1,2		
10-3	Circles **	<u>5</u>	D		
10-3	Ellipses	1	ע ז		
10-4	Hyperbolas	1	I		
Ch 10	Quizzes/Test/Review	$\frac{1}{2}$	1		
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