

Algebra II - Semester 2 Pacing Guide (2023-2024)

DATE	LESSON PLAN	HOMEWORK
Tues 1/9-10	5.0 Rules of Exponents (Not in the Algebra II Book)	HW#1 (5.0) Exponents Review (45 pts)
Thurs 1/11-12	5.1 nth Roots and Rational Exponents	HW#2 (5.1) pg. 241-242: # 1-5 all, 6-18 even, 19, 21-24 all, 36, 38, 44, 46, 51-54 all (25 pts)
Tues 1/16-17	5.2 Properties of Rational Exponents and Radicals	HW#3 (5.2) pg. 248-250: #1, 2, 4-34 even, 38-44 even, 58, 60, 64, 69, 71, 75, 86, 88 (30 pts)
Thurs 1/18-19	5.3 Graphing Radical Functions	HW#4 (5.3) pg. 256-257, #1-4 all, 7, 8, 10, 12, 13, 16, 20-28 even, 41, 43, 44, 46, 48, 49, 64, 73, 74 (24 pts)
Mon 1/22- Thurs 1/25	5.4 Solving Radical Equations & Inequalities	HW#5 (5.4) pg. 266-268, #1, 4-18 even, 22, 24, 28, 30, 32, 35, 36, 45, 58, 62-68 even, 69, 70 (24 pts)
Tues 1/23-24	CASSPP Practice Test	Fastbridge
Fri 1/26-29	5.6 Inverse of a Function	HW#6 (5.6) pg. 281-284: #1-3 all, 6, 10, 14-18 even, 22-28 even, 32-40 even, 55-59 all, 70, 77 (24 pts)
Tues 1/30-31	Chapter 5 Practice Quiz	Chapter 5 Practice Quiz
Thurs 2/1-2	5.1 -5.6 Review	HW#7 (5.1-5.6 Rev.) pg. 286-288 #2-26 even, 30-34 even (16 pts)
Mon 2/5-6	Quiz #1 5.1-5.6 (skip 5.5)	
Wed 2/7-8	6.1 Exponential Growth and Decay Functions	HW#8 (6.1) pg. 300-302: #1, 2-12 even, 13, 17-20 all, 22, 24, 40, 41, 44, 46, 47, 53-56 all (23 pts)
Fri 2/9-12	6.2 The Natural Base, e	HW#9 (6.2) pg. 307-308: #1, 2-22 even, 23-26 all, 28-34 even, 40, 42, 48, 50 (24 pts)
Tues 2/13-14	6.3 Logarithms and Logarithmic Functions	HW#10 (6.3) pg. 314-316: #1-4 all, 6-24 even, 25, 28, 30 34-40 even, 44-50 even, 56-62 even, 68 & 71 (31 pts)
Thurs 2/15-16	6.4 Transformations of Exponential and Logarithmic Functions	HW#11 (6.4) pg. 322: #1, 3-6, 7-15 odd 35-42 (18 pts)
Mon 2/19-20	No School	Presidents Day
Wed 2/21-22	Chapter 6 Practice Quiz	Chapter 6 Practice Quiz
Fri 2/23-26	Chapter 6.1 -6.4 Review	HW#12 (6.1-6.4 Quiz Rev) pg. 350-351: #1-20 (20 pts)
Tues 2/27-28	Quiz#2 6.1-6.4	
Thurs 2/29- 3/1	6.5 Properties of Logarithms	HW#13 (6.5) pg. 331-332: #1-5 all, 8-12 all, 14-20 even, 21, 22-42 even, 43 (27 pts)
Mon 3/4-5	6.6 Solving Exponential and Logarithmic Equations	HW#14 (6.6) pg. 338-339: #1-8 all, 10-18 even, 22-32 even 33, 34 & 37 (22 pts)
Wed 3/6-7	6.7 Modeling with Exponential and Logarithmic Functions	HW#15 (6.7) pg. 346: #2, 4, 5, 8-16 evens & 19 (9 pts)
Fri 3/8 -3/11	Midterm Practice (ch 5 & 6)	Midterm Practice (ch 5 & 6)
Tues 3/12-13	MIDTERM	
Thurs 3/14-18	7.2 Graphing Rational Functions	HW#17 (7.2) pg. 370-372: #1, 2, 4-20 even, 21-24 all, 34-38 even, 42, 43, 59-62 all (24 pts)
Fri 3/15	No School	

Tues 3/19-20	7.3 Multiplying and Dividing Rational Expressions	HW#18 (7.3) pg. 380-382: #1, 4-8 even, 12-20 even, 21, 22, 28-34 even, 42, 44, 50, 52 (19 pts)
Thurs 3/21-22	7.4 Adding and Subtracting Rational Expressions	HW#19 (7.4) pg. 388-390: #1, 2, 4-24 even, 32-36 even, 39-41 all, 49, 50 (21 pts)
Mon 3/25-26	7.5 Solving Rational Equations	HW#20 (7.5) pg. 396-398: #1, 2, 4-28 even, 33, 34, 38, 40 (19 pts)
Wed 3/27-28	Chapter 7 Practice Quiz	Chapter 7 Practice Quiz
Spring Break 4/1-4/5		
Mon 4/8-9	Chapter 7 Review	
Wed 4/10-11	Quiz#3 7.2-7.5 (skip 7.1)	HW#21 Ch. 7 Review pg. 400-402: # 11-21, 25, 27 (13 pts)
Fri 4/12-15	Pythagorean Thm. & Unit Circle	Practice & Memorize the unit circle
Tues 4/16-17	9.1 Right Triangle Trig.	HW#22 (9.1) pg. 466-468 #6-40 even 41-43 (21 pts)
Thurs 4/18-19	9.2 Angles and Radian Measure & Unit circle practice quiz (15 min)	HW#23 (9.2) pg. 474-476: #1-6 all, 8, 10-14 all, 16, 18, 20-22 all, 24, 25, 27-29 all, 33, 34, 38 (25 pts)
Mon 4/22-23	9.3 Trigonometric Functions & Unit Circle Quiz (10 pts)	HW#24 (9.3) pg. 482-484 #4-24 evens, 25-32 (19 pts)
Wed 4/24-25	9.4A Graphing Sine and Cosine Parent Functions	HW#25 (9.4A) pg. 491 #1 & 2, 8-10, 12, 13-20 (14 pts)
Fri 4/26-29	9.4B Graphing Sine and Cosine Functions with Transformation	HW#26 (9.4B) pg. 491-492 #3 & 4, 26-48 evens, 50 (15 pts)
Tues 4/30-5/1	9.5 Graphing Tangent Functions	HW#27 (9.5) pg. 502 #1,5,6,12,14,16,25-28 (10 pts)
Thurs 5/2-3	9.7 Using Trig. Identities	HW#28 (9.7) pg. 517 #3-5 (3 pts)
Mon 5/6-7	Chapter 9 Practice Quiz	Chapter 9 Practice Quiz
Wed 5/8-9	Chapter 9 Review	HW#29 (9.1-9.5 Rev.) pg. 526-528 #1-22,24 (23 pts)
Fri 5/10-13	Quiz#4 9.1-9.7 (skip 9.6)	
Tues 5/14-15	8.1 Defining and Using Sequences and Series	HW#30 (8.1) pg. 414-415: #6-48E, & 55 (23 pts)
Thurs 5/16-17	8.2 Analyzing Arithmetic Sequences and Series	HW#31 (8.2) pg. 422-424: #1, 4-10 even, 11, 14, 16, 20, 24-28 even, 32-36 even, 40, 41, 48-58 even, 66, 68 (25 pts)
Mon 5/20-21	8.3 Analyzing Geometric Sequences and Series	HW#32 (8.3) pg. 430-432: #1-4 all, 6-38 even, 47, 48, 50, 60 (21 pts)
Wed 5/22-23	8.4 Finding Sums of Infinite Geometric Series	HW#31 (8.4) pp. 439-440: #1, 2, 6-10 all, 12-15 all, 17, 20, 22, 23, 30, 32-36 even (19 pts)
5/24 & 27	No School	Memorial Day! All late work is due May 26th
Tues 5/28-29	Fastbridge & Final Review	Final Practice & Notesheet (0 pts)
5/30 B Period Final	Final Review	Final Practice & Notesheet (0 pts)
Finals 5/31-6/5		
Summer Break		