GMS - Algebra I A & B
Pacing Guide & Standards

Day	In-Class Work	Homework	Resources	Unit Objectives	Standards
Unit 0					
1	GS 1-2, pzl 1	GS 5 (Type Writing)	Algebra Toolkit Cooperative Cards – Resource page Four Dice per team	Develop good work habits with homework. Become accustomed to working in a team to solve mathematics problems Become acquainted with different forms of systematic lists Investigate basic probability Explore area and perimeter Analyze data and represent it with graphs and charts Organize your notebook for this course	
2	GS 3,4, pzl 2	GS 10	Graph paper		
3	GS 6,7, pzl 3	GS 8, 9, 11			
4	GS 12-14	GS 15-18			
5	GS 19-23	GS 24-27, pzl 4			
Unit 1					
6	SQ 1-4,pzl 5	SQ 5-7	Graph paper Poster paper for class graph	Understand the rules for doing the arithmetic with integers Combine algebraic terms using addition & subtraction Interpret graphs Organize data using a variety of methods, including systematic lists and tables Investigate patterns and use them to predict outcomes	
7	SQ 9-12	SQ 13, 15-17	Sticky dots Tiles for integer work		
8	SQ 18-23	SQ 24-26	Toolkit		
9	SQ 28-31, pzl 6	SQ 32-35	Tiles for integer work Calculators		
10	SQ 36-39	SQ 40-43 Skill Builder #1			
11	SQ 45-49	SQ 50-54			
12	SQ 55-58	SQ 59-64	Patterns Resource Page		
13	SQ 65-70	SQ 71-75, pzl 8	Algebra Tiles		
14	SQ 76-79	SQ 80-84			
15	SQ 85	SQ 86-89	Poster paper or transparencies		
16	Presentations	SQ 90,91, pzl 9	Pens		
17	Unit 0-1 Team Test				
Unit 2					
18	KF 1	KF 8,9	Poster Paper, pens or transparencies	Learn how to break large problems into smaller parts that you know how to solve Review and consolidate the Order of Operations with integers, decimals, and fractions Develop area formulas for basic geometric figures and understand their origins	L1.1.3
19	KF 2,3 (4 EC)	KF 5,6,7,10			
20	KF 11-15, pzl 11	KF 16-21	Scissors Triangle Resource page		
21	Unit 0-1 Individual Test	Skill Builder #3			
22	KF 22-26	KF 27-32	String, ruler, scissors Circles Resource page		

23	KF 33-35(37/38 EC)	KF 39-44	Circular cans or objects	Continue working with Algebra Tiles to learn the Distributive Property Explore your scientific calculator to manage large numbers	
24	KF 45 & 46	KF 47-52			
25	KF 53-59	KF 60-64	Algebra Tiles		
26	KF 66-72	KF 73-77	Algebra Tiles		
27	KF 78-86	KF 87-92			
28	KF 93-99	KF 100-105			
29	KF **106** & 107	KF 108-113	Kitchen Floor Resource page		
30	KF 114-127	(Whatever not finished)	Poster paper, pens		
31	Unit 2 Team Test				
Unit 3					
32	BC 8,9,12	BC 4-7	Poster graph paper Sticky dots	Use patterns and organized data tables to draw tables to draw graphs and solve problems Explore and use the xy-coordinate system Explore families of equations and their graphs, with a primary focus on linear and quadratic functions Begin writing algebraic expressions to describe the rule that governs tables of input and output values	L1.2.4, A2.3.1, A2.4.2, A2.4.3, A2.3.2, L1.1.3
33	BC 1-3,10,11	BC 13-18	Cards Rope, chalk or tape		
34	Unit 2 Individual Test	Skill Builder #4	BC 1 Resource page Sticky dots Poster graph paper		
35	BC 19-22	BC 23,25-27	Silent Board Game Transparency		
36	BC 28-31	BC 33-36			
37	BC 37,38,39	BC 40-44			
38	BC 45-49	BC 50-54	BC 48 Resource page		
39	BC 55-58	BC 59-63			
40	BC 64-66	BC 67-71	Poster graph paper		
41	BC 72	BC 73-78	Burning Candle Investigation video		
42	BC 79-89		BC 81 Resource page		
43	Unit 3 Team Test				
Unit 4					
44	CP 11,13	CP 23-25 Skill Builder #2		Represent word problems with algebraic equations Learn to solve linear equations with manipulatives and the fundamental laws of algebra Continue your examination of inverses by "undoing" mathematical operations Begin monomial factoring as "undoing" the Distributive Property Continue developing your ability to work with variables by solving literal	A1.1.1,A1.2.1, L1.1.3, L1.2.4, A2.3.1, A2.4.2, A2.4.3, A2.3.2
45	CP 0-8	CP 9,10,12, 14	CP 0 Resource page		
46	Unit 3 Individual Test	Skill Builder #5			
47	CP 15-19	CP 20-26			
48	CP 27-29	CP 30-36	Integer Tiles Cups		
49	CP 37-40	CP 41-47	Integer tiles		
50	CP 48-53	CP 56-62	Cups		
51	CP 63-68	CP 69-76			
52	CP 77-84	CP 85-91			

53	CP 92,93	CP 94-98	Graph paper	equations	
54	CP 99-103	CP 104-110	Rulers		
55	CP 111-123		Summary Resource page		
56	Unit 4 Team Test				
Unit 5					
57	EF 1-5,11-13		Dot paper	Explore ratios from a numerical, geometric, and algebraic perspective Compare ratios of sides, perimeters, and areas for plane figures Explore percent as a ratio Use equivalent ratios in relation to graphs of lines Write and solve equations that involve ratios, including proportions	L1.1.3, L1.2.4, A2.3.1, A2.4.2, A2.4.3, A2.3.2, A1.1.1, A1.2.1
58	EF 6-8	EF 10, 14-17	EF 7 Resource page		
59	EF 18-23	EF 24-29			
60	Unit 4 Individual Test	Skill Builder #6 (1-8)			
61	EF 30-36	EF 37-43	Skill Builders # 9 & 10 (warm ups)		
62	EF 44-47	EF 48-53			
63	EF 54-58 (59 EC)	EF 60-65 Skill Builder #9 (5-12)			
64	EF 66-73	EF 74-77,80			
65	EF 81-84	EF 86-92			
66	EF 93-100	EF 101-107			
67	EF 109-115	Skill Builder #6 (9-16)			
68	EF 116-127				
69	Unit 5 Team Test				
Unit 6					
70	WR 0-3	WR 5-9	Graph paper WR 1 & 3 Resource pages	Review all significant ideas from Units 0-5 while consolidating graphing and solving equations Solve problems that use linear equations to model two simultaneous situations by applying graphing, problem solving and algebraic skills Solve systems of two linear equations algebraically by substitution Use tiles to extend the Distributive Property to multiplying binomials	A2.2.1, L1.1.3, L1.2.4, A2.3.1, A2.4.2, A2.4.3, A2.3.2, A1.1.1, A1.2.1
71	WR 10,12	WR 13-19	Square tiles		
72	Unit 5 Individual Test	Skill Builder #6 (17-24)			
73	WR 20-22	WR 23-27	WR 20 Resource page		
74	WR 28-32	WR 33-38			
75	WR 39-45	WR 46-50	Skill Builder #11 & 12		
76	WR 51,52	WR 53-58			
77	WR 59-61	WR 63-69			
78	WR 70-73	WR 74-80	Algebra tiles		
79	WR 81-85	WR 87-94	Algebra tiles		
80	WR 95-98	WR 99-106			
81	Unit 6 Team Test Review for Alg A (0-6) final				
82	Review for Alg A (0-6) final				
83	Final exam Alg A				

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Unit 7					
84	BR 1,2	BR 6-10	Skill Builder #13	Develop your understanding of the relationship between graphs and their equations Formalize the notion of the steepness and direction of a line (slope) in terms of rate of change Continue learning how to solve systems of Learn how to solve systems of equations using the slope-intercept method (y=mx+b) Work with distance, rate and time relationships in context.	A2.2.1, A2.4.2, A2.4.3
85	BR 11-15	BR 16-20	Daily: graph paper		
86	BR 21-26	BR 27-32	BR-0 Resource page		
87	BR 33-39	BR 41-46	BR-23 Resource Page		
88	BR 47-51	BR 52-57	Br-36 Resource Page		
89	BR 58-63	BR 64-69	BR-49 Resource Page		
90	BR 70-73	BR 74-78	Cooperative cards		
91	BR 79-83	BR 84-86, 88, 89	Big Race Answer		
92	BR 90, 91	BR 92-96			
93	BR 97, 98	BR 99-104			
94	Unit 7 Team Test				
Unit 8					
95	Skill Builder #7 Review		Skill Builder #14	Learn how to "undo" multiplying binomials by factoring trinomials. Explore how to factor special products, such as differences of squares and perfect square trinomials. Combine your factoring skills, including common terms, special binomial products, and trinomials. Solve factorable quadratic equations algebraically using the Zero Product Property. Study quadratic equations in relation to their graphs.	A2.2.1, A2.4.2, A2.4.3, A1.1.3, A2.2.1, A2.6.2
96	Unit 7 Individual Test	Skill Builder #8 (odds)	Algebra Times Resource Page		
97	AP 0-4	AP 5-9	AP-2 Resource Page		
98	AP 10-12	AP 13-17	AP-21 Resource Page		
99	AP 18-21	AP 22-27	AP-40, 41, 42 Resource Page		
100	AP 28-32	AP 33-39	Graph paper, scissors		
101	AP 40-44	AP 45-49			
102	AP 50, 51	AP 52-56			
103	AP 57-61	AP 63-69			
104	AP 70-73	AP 74-78			
105	AP 79	AP 80-84			
106	AP 85-92,94	Skill Builder #15			
107	Unit 8 Team Test				
Unit 9					
108	BP 1-4	BP 5-10	Skill Builder #16	Use diagrams and models as an aid to writing equations for two and three dimensional situations. Apply the Pythagorean Theorem to calculate the distance between two points. Solve equations that involve fractions. Explore square roots in terms of their meaning as numbers.	A2.2.1, A2.4.2, A2.4.3, A1.1.3, A2.2.1, A2.6.2, A1.2.8
109	BP 11-16	BP 17-22	Graph paper		
110	Unit 8 Individual Test	Skill Builder #16 (1-4)	BP-2 Resource Page		
111	BP 24-27 (28 E.C.)	BP 29-35	BP-15 Resource Page		
112	BP 36-38	BP 39-45	Cardboard Colored paper Scissors, tape		
113	BP 46, 47, 49	BP 50-55	Straws, string Small open boxes		

114	BP 57-60	BP 62-68		Use patterns to discover the methods for doing arithmetic calculations with square roots. Solve equations that include square roots/ Write the equation of a line given the coordinates of two points on the line.	
115	BP 69-75	BP 76-81			
116	BP 83-87	BP 88-91,94			
117	BP 95-98	BP 99-105			
118	BP 106-110	BP 111-117,119, 120 (118 E.C.)			
119	Unit 9 Team Test				
Unit 10					
120	YS 1-4	YS 6-12	Scientific Calculators	Extend your ability to factor trinomials to cases where the coefficient of x^2 is not 1. Explore exponents to develop basic procedures for working with positive, negative and zero exponents. Simplify elementary rational expressions in preparation for more complicated cases. Learn how to solve quadratic equations using the Quadratic Formula.	A2.2.1, A2.4.2, A2.4.3, A1.1.3, A2.2.1, A2.6.2, A1.2.8, L2.1.2, A1.1.2, A1.2.2, A2.3.1, A2.6.1, A2.6.2
121	YS 13-16	YS 18-23	YS 17 (warm up)		
122	Unit 9 Individual Test	Skill Builder #19			
123	YS 25-31	YS 32-37			
124	YS 38-46	YS 47-51			
125	YS 52-56	YS 57-61 Skill Builder #18 (1-8)	Skill Builder #18		
126	YS 63-66	YS 67-72 (73 E.C.)			
127	YS 74-78	YS 79-84	Skill Builder #21		
128	YS 85-89	YS 90-94			
129	YS 95-97	YS 98-102			
130	YS 103-110	Skill Builder #18 (9-24)			
131	Unit 10 Team Test				
Unit 11					
132	CM 1-4	CM 5-11	Resource Page	Explore the nature of relations and functions. Add the Elimination (addition) Method to your list of strategies to solve systems of linear equations. Work with absolute value in the context of distance from a reference point. Solve equations with absolute value and square roots. Extend your work with rational expressions to include multiplying and dividing them. Explore the properties of real numbers and identify them in the context of algebraic expressions.	A2.2.1, A2.4.2, A2.4.3, A1.1.3, A2.2.1, A2.6.2, A1.2.8, L2.1.2, A1.1.2, A1.2.2, A2.3.1, A2.6.1, A2.6.2, L1.1.3, L2.1.6, A2.1.1, A2.1.2, A2.1.3, A2.1.4
133	CM 13-16	CM 17, 19-23			
134	Unit 10 Individual Test	Skill Builder #20 (odds)			
135	CM 24-29	CM 30-34			
136	CM 35-39	CM 40-45			
137	CM 46-49	CM 50-55			
138	CM 56-62	CM 63-68			
139	CM 69-75	CM 76-81			
140	CM 82-87	CM 88-94			
141	CM 95-100	CM 101-106			
142	CM 107-112	CM 113-118			
143	CM 119	CM 120-126			
144	CM 127-136	Skill Builder #20 (even)			
145	Unit 11 Team Test				
Unit 12					
146	GG 1-7	GG 8-14	Skill Builder #25-27	Review and extend the various	A2.2.1, A2.4.2, A2.4.3,

147	GG 15-19	GG 20-25	Graphing Calculators	problem solving strategies that have been introduced during the year Extend your study of solving equations to solving inequalities. Extend your student of linear systems to linear inequalities. Solve more challenging problems that involve area and subproblems. Add and subtract rational expressions.	A1.1.3, A2.2.1, A2.6.2, A1.2.8, L2.1.2, A1.1.2, A1.2.2, A2.3.1, A2.6.1, A2.6.2, L1.1.3, L2.6.1, A2.1.1, A2.1.2, A2.1.3, A2.1.4, A1.2.1, A1.2.4
148	GG 26-31	GG 32-38			
149	GG 39-44	GG 45-51			
150	GG 53-58	GG 59-64			
151	GG 66-68	GG 70-75			
152	GG 76-79	GG 81-86			
153	GG 87-91	GG 92-98			
154	GG 99-104	GG 106-112			
155	GG 113-120	GG 121-126			
156	GG 127-135	Skill Builder #22 (odd)			
157	Unit 12 Team Test Review				
158	Review				
159	Final Algebra B Exam				