

Algebra 1 McGraw Hill - Pacing Guide

SEMESTER 1

SEMESTER 1		
Dates		Number of Days
August 17 - 19	Beginning of the Year ALEKS Window	3 days
August 20 - September 4 12 days	Unit 1 – Using Expressions and Equations	
	Big Idea: Growth and Decay, Systems of Equations	
	Essential Question: How can writing and solving equations help you solve problems in the real world?	
	1-1 Properties of Real Numbers	2 days
	1-2 Descriptive Modeling with Expressions	2 days
	1-3 Solving Equations in One Variable	3 days
	1-5 Using Formulas	2 days
	Additional/Extra Instructional Days - Unit Review/Assessment	3 days
September 8- September 29 16 days	Unit 2 – Relations and Functions	
	Big Idea: Features of Functions	
	Essential Question: Why are representations of relations and functions useful?	
	2-1 Representing Relations	2 days
	2-2 Functions	2 days
	2-3 Linearity and Continuity of Graphs	2 days
	2-4 Intercepts of Graphs	2 days
	2-5 Shapes of Graphs	3 days
	2-6 Sketching Graphs and Comparing Functions	2 days
Additional/Extra Instructional Days - Unit Review/Assessment	3 days	
September 30 - October 2	Benchmark Assessment # 1: Unit 2 Assessment - Form A	September 30 - October 2
October 5 - October 29 18 days	Unit 3 – Linear and Nonlinear Functions	
	Big Ideas: Growth and Decay; Function Investigations	
	Essential Question: What can a function tell you about the relationship that it represents?	
	3-1 Graphing Linear Functions	2 days
	3-2 Rate of Change and Slope	2 days
	3-3 Slope-Intercepts Form	2 days
	3-4 Transformations of Linear Functions	3 days
	3-5 Arithmetic Sequences	2 days
	3-6 Piecewise and Step Functions	2 days
	3-7 Absolute Value Functions	2 days
	Additional/Extra Instructional Days - Unit Review/Assessment	2 days
	Unit Assessment/Performance Task/IAB/fIAB	1 day
	Unit 4 – Creating Linear Equations	
	Big Ideas: Model with Functions; Investigating Data	
	Essential Question: How can creating a linear function to model real-world situations be useful?	

October 30 - November 17 12 days			
	4-1	Writing Equations in Slope-Intercept Form	2 days
	4-2	Writing Equations in Standard and Point-Slope Form	2 days
	4-3	Scatter Plots and Lines of Fit	2 days
	4-4	Linear Regression	3 days
	Additional/Extra Instructional Days - Unit Review/Assessment		2 days
	Unit Assessment/Performance Task/IAB/fIAB		1 day
November 18 - December 10 12 days	Unit 5 – Linear Inequalities		
	Big Ideas: Systems of Equations		
	Essential Question: How can writing and solving inequalities help you solve problems in the real world?		
	5-1	Solving One-Step Inequalities	2 days
	5-2	Solving Multi-Step Inequalities	2 days
	5-3	Solving Compound Inequalities	3 days
	5-5	Graphing Inequalities in Two Variables	3 days
	Additional/Extra Instructional Days - Unit Review/Assessment		2 days
December 15 - December 17	Benchmark Assessment # 2 (Final Exam): Unit 5 Assessment - Form A		December 15 - December 17

SEMESTER 2				
Dates				Number of Days
January 14 - 15 2 days	Unit 6 - Systems of Linear Equations and Inequalities			
	Big Ideas: Systems of Equations			
	Essential Question: How are systems of equations useful in the real world?			
	6-1	Graphing Systems of Equations	2 days	
January 19 - January 22	Middle of the Year ALEKS Window		January 19 - January 22	
January 25 - February 9 12 days	6-2	Substitution	2 days	
	6-3	Elimination Using Addition and Subtraction	2 days	
	6-4	Elimination Using Multiplication	3 days	
	6-5	Systems of Inequalities	2 days	
	Additional/Extra Instructional Days - Unit Review/Assessment		2 days	
	Unit Assessment/Performance Task/IAB/fIAB		1 day	
February 10 - March 2 13 days	Unit 7 – Exponents and Roots			
	Big Idea: Growth and Decay; Systems of Equations			
	Essential Question: How do you perform operations and represent real-world situations with exponents?			
	7-1	Properties of Exponents	2 days	
	7-2	Operations with Negative Exponents	2 days	
	7-3	Rational Exponents	3 days	
	7-4	Simplifying Radical Expressions	2 days	
	7-5	Operations with Radical Expressions	2 days	
	Additional/Extra Instructional Days - Unit Review/Assessment		2 days	
March 3 - March 5	Benchmark Assessment # 3: Unit 7 Assessment - Form A		March 3 - March 5	
	Unit 8 – Exponential Functions			
	Big Idea: Features of Functions; Growth and Decay			
	Essential Question: How can you perform operations on polynomials and use them to represent real-			

March 8 - April 6 14 days	world situations?		
	8-1	Exponential Functions	2 days
	8-2	Transformations of Exponential Functions	2 days
	8-3	Writing Equations for Exponential Functions	3 days
	8-5	Geometric Sequences	2 days
	8-6	Recursive Formulas	2 days
	Additional/Extra Instructional Days - Unit Review/Assessment		3 days
Spring Break March 24 - April 2			
April 7 - May 3 19 days	Unit 9 – Polynomials		
	Big Idea: Growth and Decay		
	Essential Question: How can you perform operations on polynomials and use them to represent real-world situations?		
	9-1	Adding and Subtracting Polynomials	2 days
	9-2	Multiplying Polynomials by Monomials	2 days
	9-3	Multiplying Polynomials	2 days
	9-4	Special Products	2 days
	9-5	Factoring Polynomials	3 days
	9-6	Factoring Quadratic Trinomials	3 days
	9-7	Factoring Special Products	2 days
Additional/Extra Instructional Days - Unit Review/Assessment		3 days	
May 4 - May 25 16 days	Unit 10 – Quadratic Functions		
	Big Idea: Features of Functions; Systems of Equations; Investigate Data		
	Essential Question: Why is it helpful to have different methods to analyze quadratic functions and solve quadratic equations?		
	10-1	Graphing Quadratic Functions	2 days
	10-2	Transformations of Quadratic Functions	2 days
	10-3	Solving Quadratic Equations by Graphing	2 days
	10-4	Solving Quadratic Equations by Factoring	2 days
	10-5	Solving Quadratic Equations by Completing the Square	3 days
	10-6	Solving Quadratic Equations by Using the Quadratic Formula	2 days
	Additional/Extra Instructional Days - Unit Review/Assessment		2 days
Unit Assessment/Performance Task/IAB/fIAB		1 day	
May 26 - June 2 4 days	Unit 11 - Statistics		
	Big Idea: Reasoning with Data		
	Essential Question: How do you summarize and interpret data?		
	11-2	Measures of Center and Spread	4 days
June 7 - June 9	Final Exam		June 7 - June 9

Extra Instructional Days

Closing the Unit
Intervention

Unit Review, Math Modeling, Unit Assessment, Performance Task, FIABs
Fluency Practice, Differentiation (small group lessons, ALEKS, personalized practice)