

GADSDEN CITY CURRICULUM GUIDE ESSENTIAL CONTENT AND SKILLS ALGEBRA1 B COS (BLOCK) TEXT: GLENCOE ALGEBRA 1

Date Taught	Objective	Standard	Text Section	Section Name	Additional Resources	Suggested Time Frame	Chapter Time Frame
	*Multiply monomials using the properties of exponents. *Simplify expressions using the multiplication properties of exponents.	A.SSE.2, F.IF.8b	7.1	Multiplication Properties of Exponents		1 day	12 days
	*Divide monomials using the properties of exponents. *Simplify expressions containing negative and zero exponents.	A.SSE.2, F.IF.8b	7.2	Division Properties of Exponents		1 day	
	*Evaluate and rewrite expressions involving rational exponents. *Solve equations involving expressions with rational exponents.	N.RN.1, N.RN.2	7.3	Rational Exponents		1 day	
	*Express numbers in scientific notation. *Find products and quotients of numbers expressed in scientific notation.	A.SSE.2	7.4	Scientific Notation		1 day	
	*Graph exponential functions. *Identify data that display exponential behavior.	F.IF.7e, F.BF.3, F.L3.2, A.REI.11	7.5	Exponential Functions		2 days	
	*Solve problems involving exponential growth. *Solve problems involving exponential decay.	F.IF.8b, F.LE.2, A.SSE.3c	7.6	Growth and Decay		1.5 days	
	*Identify and generate geometric sequences. *Relate geometric sequences to exponential functions.	F.BF.2, F.LE.1	7.7	Geometric Sequences as Exponential Functions		1.5 days	
	*Use a recursive formula to list terms in a sequence. *Write recursive formulas for arithmetic and geometric sequences.	F.IF.3, F.BF.2	7.8	Recursive Formulas		1 day	
	Review and Assess					2 days	

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	*Write polynomials in standard form *Add and subtract polynomials.	A.APR.1, A.223.1a	8.1	Adding and Subtracting Polynomials		2 days	16 days
	*Multiply a polynomial by a monomial. *Solve equations involving the products of monomials and polynomials.	A.APR.1	8.2	Multiplying a Polynomial by a Monomial		1 day	
	*Multiply binomials by using the FOIL method. *Multiply polynomials by using the Distributive Property.	A.APR.1	8.3	Multiplying Polynomials		2 days	
	*Find squares of sums and differences. *Find the product of a sum and a difference.	A.APR.1	8.4	Special Products		1 day	
	*Using the Distributive Property to factor polynomials. *Solve equations of the form $ax^2 + bx = 0$.	A.SSE.2, A.SSE.3e	8.5	Using the Distributive Property		1 day	
	*Factor trinomials of the form $x^2 + bx + c = 0$ *Solve equations of the form $x^2 + bx + c = 0$.	A.SSE.2, A.SSE.3a, A.REI.4b	8.6	Solving $x^2 + bx + c = 0$		5 days	
	*Factor trinomials of the form $ax^2 + bx + c$. *Solve equations of the form $ax^2 + bx + c = 0$.	A.SSE.3a, A.REI.4b	8.7	Solving $ax^2 + bx + c = 0$		2 days	
	*Factor binomials that are the difference of squares. *Use the difference of squares to solve equations.	A.SSE.3a, A.REI.4b	8.8	Differences of Squares		1 day	
	*Factor perfect square trinomials. *Solve equations involving perfect squares.	A.SSE.3a, A.REI.1	8.9	Perfect Squares		1 day	
	Review and Assess					2 days	

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	*Analyze the characteristics of graphs of quadratic functions. *Graph quadratic functions.	F.IF.4, F.IF.7a, F.IF.6	9.1	Graphing Quadratic Functions		2 days	17 days
	*Solve quadratic equations by graphing. *Estimate solutions of quadratic equations by graphing.	A.REI.4b, F.IF.7a	9.2	Solving Quadratic Equations by Graphing		1.5 days	
	*Apply translations to quadratic functions. *Apply dilations and reflections to quadratic functions.	F.IF.7a, F.BF.3, A.SSE.3b, A.REI.7	9.3	Transformations of Quadratic Functions		2.5 days	
	*Complete the square to write perfect square trinomials. *Solve quadratic equations by completing the square.	A.REI.4a, 4b, F.IF.8a	9.4	Solving Quadratic Equations by Completing the Square		1.5 days	
	*Solve quadratic equations by using the Quadratic Formula. *Use the discriminant to determine the number of solutions of a quadratic equation.	A.REI.4a, 4b (no complex solutions)	9.5	Solving Quadratic Equations by Using the Quadratic Formula		1.5 days	
	*Identify linear, quadratic, and exponential functions from given data. *Write equations that model data	F.IF.6, F.L3.1, F.LE.2, S.ID.6a	9.6	Analyzing Functions with Successive Differences		1.5n days	
	*Identify and graph step functions. *Identify and graph absolute value and piecewise-defined functions.	F.IF.4, F.IF.7b	9.7	Special Functions		2 days	
	Review and Assess					2 days	

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	*Graph and analyze dilations of radical functions. *Graph and analyze reflections and translations of radical functions.	F.BF.4a, F.IF.4, F.IF.7b	10.1	Square Root Functions		2 days	12 days
	*Simplify radical expressions by using the Product Property of Square Roots. *Simplify radical expressions by using the Quotient Property of Square Roots.	A.REI.4a, N.RN.3	10.2	Simplifying Radical Expressions		1.5 days	
	*Add and subtract radical expressions. *Multiply radical expressions.	N.RN.2	10.3	Operations with Radical Expressions		1.5 days	
	*Solve radical equations. *Solve radical equations with extraneous solutions.	N.RN.2, A.CED.2	10.4	Radical Equations		1 day	
	*Solve problems by using the Pythagorean Theorem. *Determine whether a triangle is a right triangle.	Review	10.5	The Pythagorean Theorem		2 days	
	*Find trigonometric ratios of angles. *Use trigonometry to solve triangles.	Review	10.6	Trigonometric Ratios		2 days	
	Review and Assess					2 days	

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	*Identify and use inverse variations. *Graph inverse variations.		11.1	Inverse Variation		1.5 days	13 days
	*Identify excluded values. *Identify and use asymptotes to graph rational functions.	A.CED.2	11.2	Rational Functions		1.5 days	
	*Identify values excluded from the domain of a rational expression. *Simplify rational expressions.		11.3	Simplifying Rational Expressions		1.5 days	
	*Multiply rational expressions. *Divide rational expressions.		11.4	Multiplying and Dividing Rational Expressions		1 day	
	*Divide a polynomial by a monomial. *Divide a polynomial by a binomial.		11.5	Dividing Polynomials		1 day	
	*Add and subtract rational expressions with like denominators. *Add and subtract rational expressions with unlike denominators.		11.6	Adding and Subtracting Rational Expressions		2 days	
	*Simplify mixed expressions. *Simplify complex fractions.		11.7	Mixed Expressions and Complex Fractions		1 day	
	*Solve rational equations. *Use rational equations to solve problems.	A.CED.2, A.REI.11	11.8	Rational Equations		1 day	
	Review and Assess					2 days	

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	*Classify and analyze samples. *Classify and analyze studies.		12.1	Samples and Studies		1.5 days	11 days
	*Identify sample statistics and population parameters. *Analyze data sets using statistics.	S.ID.2	12.2	Statistics and Parameters		1 day	
	*Describe the shape of a distribution. *Use the shapes of distributions to select appropriate statistics.	S.ID.2, S.ID.3	12.3	Distributions of Data		1 day	
	*Determine the effect that transformations of data have on measures of central tendency and variation. *Compare data using measures of central tendency and variation.	S.ID.2, S.ID.3	12.4	Comparing Sets of Data		1 day	
	*Calculate experimental probabilities. *Design simulations and summarize data from simulations.		12.5	Simulation		1 day	
	*Use permutations. *Use combinations.		12.6	Permutations and Combinations		1 day	
	*Find probabilities of independent and dependent events. *Find probabilities of mutually exclusive events.	S.ID.5, S.CP.2	12.7	Probability of Compound Events		1.5 days	
	*Find probabilities by using random variables. *Find the expected value of a probability distribution.	S.ID.2	12.8	Probability Distributions		1.5 days	
	Review and Assess					2 days	