

OLEAN HIGH SCHOOL

Course Name: Integrated Algebra

Text : Glencoe Mathematics, Algebra

**Other Resources: Amsco: Reviewing Integrated Math Course I
Glencoe Teacher Resources**

Grades 9-12

Month	Topic Content	Skills / Concepts	Major Assessments	Learning Standards	Resource/Text Page
Sept.	Expressions and equations Real numbers	Write and evaluate algebraic expressions Solve open sentences Algebraic properties Classify and graph rational numbers Add, subtract, multiply, and divide rational numbers	5-minute checks provided by Glencoe tests/quizzes	A.A.1, 2, 3, 21, 22, 24 A.N.1, 5, 6	Glencoe algebra chapter 1 1-1, 1-2, 1-3, 1-4, 1-5, 1-6 Chapter 2 2-1, 2-2, 2-3, 2-4
Oct.	Solving linear equations	Write and solve equations translated from verbal sentences	5-minute checks provided by Glencoe tests/quizzes	A.A.3, 4, 5, 6, 22, 23, 25, 26 A.N. 5 A.M. 1, 2, 3	Chapter 3 3-1, 3-2, 3-2, 3-4, 3-5, 3-6, 3-7, 3-8, 3-9
Nov.	Graphing relations and functions Find the slope of a line	Graph ordered pairs, relations, and equations Transformations on a coordinate plane Use the slope formula to find the slope	5-minute checks provided by Glencoe tests/quizzes	A.G. 3, 4 A.A.32, 33, 39	Chapter 4 4-1, 4-2, 4-4, 4-5, 4-6 Chapter 5 5-1

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Dec.	Analyzing linear Equations Solving linear inequalities	Find the slope of a line Write linear equations in slope-intercept form Graph lines using slope-intercept method Solving Inequalities with addition, subtraction, multiplication and division Absolute Value	5-minute checks provided by Glencoe tests/quizzes	A.A.4, 5, 6, 24, 29, 31, 34, 35, 36, 37, 38 A.G. 5, 6	Chapter 5 5-3, 5-4, 5-6 Chapter 6 6-1, 6-2, 6-3, 6-4, 6-5
Jan.	Solving systems of equations and inequalities Review for mid-term	Solve systems of equations by graphing and algebraically Solve systems of inequalities by graphing	5-minute checks provided by Glencoe tests/quizzes	A.A. 7, 10 A.G. 7	Chapter 7 7-1, 7-2, 7-3, 7-4, 7-5
Feb.	Polynomials	Find products and quotients of monomials Scientific notation Add, subtract , and multiply polynomial expressions Find special products of binomials	5-minute checks provided by Glencoe tests/quizzes	A.A.12, 13, 40 A.N.4 A.G. 2, 9	Chapter 8 8-1, 8-2, 8-3, 8-5, 8-6, 8-7, 8-8
Mar.	Factoring Quadratic functions Radicals	Find GCF Factor polynomials Solve quadratic equations	5-minute checks provided by Glencoe tests/quizzes	A.A. 8, 14, 19, 20, 27, 28, 41 A.G. 4, 8, 10	Chapter 9 9-1, 9-2, 9-3, 9-4, 9-5, 9-6 Chapter 10 10-1, 10-2

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Apr.	Graphing quadratic functions Solving quadratic functions by graphing Radical Expressions and Equations	Radical expressions Operations involving radical expressions Pythagorean Theorem Trig Ratios	5-minute checks provided by Glencoe tests/quizzes	A.N. 2, 3 A.A. 42, 43, 44, 45	(10-3, 10-4, 10-5, 10-6, 10-7 will be added 2007-08) Chapter 11 11-1, 11-2, 11-4, 11-7
May	Rational Expressions and Equations Final local exam May 24, 2007 periods 1-3	Operations with rational expressions Dividing polynomials Rational expressions Rational Equations	5-minute checks provided by Glencoe tests/quizzes	A.A. 14, 15, 16, 17, 18, 26	Chapter 12 12-2, 12-3, 12-4, 12-5, 12-6, 12-7, 12-9
June	Statistics and Probability Review for Math A regents	Counting principle Permutations probability Frequency histograms Percentile and quartiles central tendency	5-minute checks provided by Glencoe tests/quizzes	A.N. 7, 8 A.A. 30 A.S. 1, 2, 3, 5, 6, 9, 11, 15, 16, 18, 19, 20, 21, 23	Supplementary material from Amsco Reviewing Integrated Mathematics Course I Review Book chapters 12, 13