

High School Syllabus

Department: Mathematics
Course Title: Practical Algebra 1B

Course #: 40403B

DESCRIPTION OF COURSE: Students will continue to master algebraic concepts from Practical Algebra 1A as they continue to learn concepts such as systems of equations/inequalities, rules of exponents, factoring polynomials, operations involving radical expressions, and quadratic equations. Students will demonstrate their knowledge and understanding through cooperative learning activities, projects, class discussions, homework, Study Island, and assessments involving problem-solving skills. The Algebra 1 Keystone Exam will be administered at the end of the course. Upon completion of the Algebra 1 Keystone Exam, students will continue to master Algebra 1 concepts and begin preparation for Algebra 2.

REQUIRED TOPICS OF STUDY	SUGGESTED INSTRUCTIONAL TIME	STANDARDS/ ELIGIBLE CONTENT
Foundations for Algebra	Review as Needed	CC.2.1.8.E.1, CC.2.1.HS.F.2, A1.1.1.1.1, A1.1.1.1.2, A1.1.1.3.1, A1.1.1.2.1
Solving Equations & Inequalities	Review as Needed	CC.2.2.HS.C.1, CC.2.2.HS.C.2, CC.2.2.HS.C.3, A1.1.2.1.1, A1.2.1.1.1, A1.2.1.1.2, A1.2.1.1.3, A1.2.1.2.1, A1.2.1.2.2, A1.2.2.1.1, A1.2.2.1.2, A1.2.2.1.3, A1.2.2.1.4
Graphs and Functions	Review as Needed	CC.2.2.HS.C.1, CC.2.2.HS.C.2, CC.2.2.HS.C.3, CC.2.2.HS.C.4, CC.2.2.HS.C.5, CC.2.2.HS.C.6, A1.1.2.1.1, A1.2.1.1.1, A1.2.1.1.2, A1.2.1.1.3, A1.2.1.2.1, A1.2.1.2.2, A1.2.2.1.1, A1.2.2.1.2, A1.2.2.1.3, A1.2.2.1.4
Linear Functions & Their Graphs	Review as Needed	CC.2.4.HS.B.3, A1.1.2.1.1, A1.1.2.1.2, A1.1.2.1.3, A1.2.1.1.1, A1.2.1.1.2, A1.2.1.1.3, A1.2.1.2.1, A1.2.1.2.2, A1.2.2.1.1, A1.2.2.1.2
Systems of Equations & Inequalities	8 weeks	CC.2.2.HS.C.1, CC.2.2.HS.C.2, CC.2.2.HS.C.3, A1.1.2.1.1, A1.2.1.1.1, A1.2.1.1.2, A1.2.1.1.3, A1.2.1.2.1, A1.2.1.2.2, A1.2.2.1.1, A1.2.2.1.2, A1.2.2.1.3, A1.2.2.1.4
Exponents	6 weeks	CC.2.2.HS.C.5, A1.2.2.1.1, A1.2.2.1.2, A1.2.2.1.3, A1.2.2.1.4, A2.1.3.1.1, A2.1.3.1.2, A2.1.3.1.3, A2.1.3.1.4, A2.2.1.1.1, A2.2.1.1.2, A2.2.1.1.3, A2.2.1.1.4, A2.2.2.1.1, A2.2.2.1.2, A2.2.2.1.3, A2.2.2.1.4, A2.2.2.2.1
Polynomials & Factoring	8 weeks	CC.2.2.HS.D.1, CC.2.2.HS.D.2, CC.2.2.HS.D.3, CC.2.2.HS.D.5, CC.2.2.HS.D.6 A1.1.1.5.1, A1.1.1.5.2, A1.1.1.5.3
Quadratic Equations & Functions	6 weeks	CC.2.2.HS.C.1, CC.2.2.HS.C.2, CC.2.2.HS.C.3, CC.2.2.HS.C.4, CC.2.2.HS.C.5, CC.2.2.HS.C.6, A1.1.2.1.1, A1.2.1.1.1, A1.2.1.1.2, A1.2.1.1.3, A1.2.1.2.1, A1.2.1.2.2, A1.2.2.1.1, A1.2.2.1.2, A1.2.2.1.3, A1.2.2.1.4
Radical Expressions & Equations	6 weeks	CC.2.1.HS, A2.2.1.1.1, A2.2.1.1.2, A2.2.3.1.1, A2.2.3.1.2
Rational Expressions & Functions	6 weeks	CC.2.2.HS.D.1, CC.2.2.HS.D.2, CC.2.2.HS.D.3, CC.2.2.HS.D.5, CC.2.2.HS.D.6 A1.1.1.5.1, A1.1.1.5.2, A1.1.1.5.3

RESOURCES: Textbook: Prentice Hall Algebra 1 2009; Internet: Study Island, pdesas.org ; Graphing Calculator TI-84
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Curr/Syllabus/Math/Practical Algebra 1B/ Gr 10
 BAC/Ct/e-mailed N Buckno/3/30/15