

# High School Syllabus

**Department:** Mathematics  
**Course Title:** Practical Algebra 1A

**Course #:** 40400B

**DESCRIPTION OF COURSE:** Students will gain an understanding of algebraic concepts while exploring topics in greater depth. Concepts covered include basic operations of real numbers, (both with and without a calculator), solving and graphing linear/quadratic equations, solving and graphing inequalities, as well as relations/functions. They will develop problem-solving strategies while applying and strengthening skills. Individually or in groups, students will discuss and solve problems with appropriate technology. Students will demonstrate their knowledge and understanding through cooperative learning activities, projects, class discussions, homework, Study Island, and assessments involving problem-solving skills. Students will take the Practical Algebra 1A Final Exam at the end of the course.

<b>REQUIRED TOPICS OF STUDY</b>	<b>SUGGESTED INSTRUCTIONAL TIME</b>	<b>STANDARDS/ ELIGIBLE CONTENT</b>
Foundations for Algebra	5 weeks	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	12 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
Graphs and Functions	12 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
Linear Functions & Their Graphs	11 weeks	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

**RESOURCES:** Textbook: Prentice Hall Algebra1 2009; Internet: Study Island, pdesas.org ; Graphing Calculator TI-84

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