

Department: Mathematics

Grade: 8th

Course Title: Algebra 1

DESCRIPTION OF COURSE:

Students will use the Common Core Standards to learn and understand how to apply constants and variables in solving and graphing equalities with one and two variables. They will also learn operations with polynomials and factoring. Furthermore, students will be provided opportunities to apply fundamental algebraic operations to real-life situations. 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 and tests involving problem-solving skills.

REQUIRED TOPICS OF STUDY	SUGGESTED INSTRUCTIONAL TIME	STANDARDS/ ELIGIBLE CONTENT
Foundations for Algebra	4 weeks (about 20 days)	
Equations	4 weeks (about 20 days)	
Inequalities	2 weeks (about 10 days)	
Functions	5 weeks (about 25 days)	
Systems of Equations and Inequalities	3 weeks (about 15 days)	
Exponents	3 weeks (about 15 days)	
Data and Probability	2 weeks (about 10 days)	
Polynomials	5 weeks (about 25 days)	
Rational Expressions	2 weeks (about 10 days)	
Radical Expressions	3 weeks (about 15 days)	

= 33 weeks

RESOURCES

Holt Algebra 1 Mathematics
Holt Algebra 2 Mathematics
pdesas.org