

HPISD Curriculum: Algebra I									
Title		Estimated Duration		6 Weeks					
Unit 12: Properties of Exponents		2 weeks		1	2	3	4	5	6
Unit Overview									
In preparation for future work with polynomials, students will learn and use properties of exponents involving products and quotients. They will learn to use zero and negative exponents and will read, write, and compute with numbers expressed in scientific notation.									
Enduring Understandings									
The student will understand that:		<ul style="list-style-type: none"> • A unique set of rules exists for multiplying and dividing with exponents. • Scientific notation is a condensed way to express very large and very small values. • Simplifying expressions allows complex statements to be condensed by way of classification and computation. 							
Concepts		Guiding/Essential Questions							
<ul style="list-style-type: none"> • number • relationships • rules 		<ul style="list-style-type: none"> • What are the rules for multiplying and dividing with exponents? • Under what circumstances is scientific notation appropriate and useful? • How are expressions that include exponents simplified? 							
Learning Targets									
Students will manipulate expressions and equations including exponents and scientific notation fluently and accurately.									
Formative Assessments					Summative Assessments				
homework, quizzes					test				

Language of Instruction	
power exponent	base reciprocal
	standard notation scientific notation
State Assessment Connections	National Assessment Connections
Resources	
McDougal Littell Chapter 8	