

7th Grade Unit Plan

Unit: Chapter 1 and 2 Integer Rules		Timeframe:	
Standards (paste in full standard language with coding, Bold priority Standards): .7.NS.A.1-Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers .7.NS.A.2-Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers:		Learning Target <ul style="list-style-type: none"> ● I can represent rational numbers on a number line. ● I can explain the rules for adding and subtracting integers using absolute value. ● I can apply addition and subtraction with rational numbers to model real-life problems. ● I can solve problems involving addition and subtractions of rational numbers. ● I can explain the rules for multiplying integers. ● I can explain the rules for dividing integers. ● I can evaluate expressions involving rational numbers. ● I can solve real-life problems involving multiplication and division of rational numbers. 	
Essential Questions: <ul style="list-style-type: none"> ● What does absolute value mean? ● How can you use models to find sums and differences of integers? ● How can you use models to find products and quotients of integers? ● What are the rules for integer properties? 	Prior / Future Standards: <ul style="list-style-type: none"> ● Understand that numbers that aren't rational are irrational. ● Compare irrational numbers using irrational approximations. 	Mathematics Practice Reasoning <ul style="list-style-type: none"> ● Understand and Persevere in Solving Problems ● Reason Abstractly and Quantitatively ● Construct Viable Arguments and Critique Reasoning ● Tools ● Model with Mathematics ● Precision ● Use Structure ● Use Repeated Reasoning 	
Know (Facts, Formulas, Vocabulary, "How to..." steps.)	Understand (Conceptual Big Ideas, Connections within math and with other content areas, principles, generalizations)	Do (Types of Questions for Assessment - Evidence that students know and understand)	Academic Vocabulary (Vocabulary you will explicitly teach)
<ul style="list-style-type: none"> ● Integers ● Rational numbers ● Absolute value ● Additive inverse ● Terminating decimal ● Repeating decimal ● Complex fraction ● Integer operation rules 	<ul style="list-style-type: none"> ● Students will understand that the integer and its opposite is the distance from zero (absolute value). ● Students will understand how and why the integer operation rules work without technology. 	<ul style="list-style-type: none"> ● Use the properties of rational numbers to explain and defend their mathematical thinking. ● Apply the properties of operations to problems involving all four operations with rational numbers. 	<ul style="list-style-type: none"> ● Absolute value ● Rational number ● Integer ● Complex fraction
Assessments: <ul style="list-style-type: none"> ● Formative Assessments ● Chapter 1-2 Tests ● Performance Tasks 			

Teacher/Team Reflection: