

17-18 JMS Lesson Plan

Teacher:	Carol S. Wilson; Lori Holbert; Darlene Fowler; Robert Faber	Subject:	Math – Unit 1 Operations with Rational Numbers*
Date:	QUARTER 1; 1-2 WEEKS	Grade:	7th Grade UNIT 1 PLAN, Part 2
I Can...	<ul style="list-style-type: none"> ○ Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. ○ Interpret products of rational numbers by describing real-world contexts. ○ Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers then $-(p/q) = (-p)/q = p/(-q)$. ○ Interpret quotients of rational numbers by describing real-world contexts 	I Can...	<ul style="list-style-type: none"> ○ Apply properties of operations as strategies to multiply and divide rational numbers. ○ Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. ○ Solve real-world and mathematical problems involving the four operations with rational numbers.
Standard(s):	MGSE7.NS.2a-d, MGSE7.NS.3 ● Multiplicative Inverse ● Integers ● Negative Numbers ● Opposite Numbers ● Positive Numbers ● Rational Numbers		
Teacher Notes:	*Corresponds to Holt Modules 1, 2, and 3		
DOK Level	Activities / Assignments / Questions		Assessment
REMEDIATION	<ul style="list-style-type: none"> ➤ Order rational numbers on a number line ➤ Recall algorithms for the four basic operations using whole numbers, fractions, and decimals ➤ Use the Order of Operations 		<input checked="" type="checkbox"/> Formative <input type="checkbox"/> Summative <input checked="" type="checkbox"/> Selected Response <input type="checkbox"/> Constructed Response <input checked="" type="checkbox"/> Verbal <input type="checkbox"/> Rubric <input checked="" type="checkbox"/> Other – Teacher observation/checklist
2	<ul style="list-style-type: none"> ➤ Use rules for multiplying and dividing signed numbers ➤ Identify and apply properties of numbers to rational number as appropriate (distributive) ➤ Calculate products and quotients of rational numbers including positive and negative fractions and decimals 		<input checked="" type="checkbox"/> Formative <input checked="" type="checkbox"/> Summative <input checked="" type="checkbox"/> Selected Response <input checked="" type="checkbox"/> Constructed Response <input checked="" type="checkbox"/> Verbal <input type="checkbox"/> Rubric <input checked="" type="checkbox"/> Other – Teacher

			observation/checklist
3	<ul style="list-style-type: none"> ➤ Construct viable arguments and critique the reasoning of others when working with rational numbers (division by zero) ➤ Reason abstractly and quantitatively when working with rational numbers ➤ Use rational number concepts to solve real world and non-routine problems 	<input checked="" type="checkbox"/> Formative <input checked="" type="checkbox"/> Summative	<input checked="" type="checkbox"/> Selected Response <input checked="" type="checkbox"/> Constructed Response <input checked="" type="checkbox"/> Essay <input checked="" type="checkbox"/> Verbal <input type="checkbox"/> Rubric <input checked="" type="checkbox"/> Other – Teacher observation/checklist
4	<ul style="list-style-type: none"> ➤ Complete tasks from Rational Numbers Choice Board as appropriate ➤ Complete GADOE tasks as appropriate 	<input checked="" type="checkbox"/> Formative <input checked="" type="checkbox"/> Summative	<input checked="" type="checkbox"/> Selected Response <input checked="" type="checkbox"/> Constructed Response <input checked="" type="checkbox"/> Essay <input checked="" type="checkbox"/> Verbal <input checked="" type="checkbox"/> Rubric <input checked="" type="checkbox"/> Other – Teacher observation/checklist
Summarizing Activities:	Ticket out the Door Thumbs Up / Thumbs Down Teacher Questions/Checklist Quizzes Unit Tests Tasks		
Resources:	Center/station activities/Games Outstanding Math Guide foldables Interactive Math Notebook: class notes, examples, other foldables IPAD – Apps / Kahoot Math in the Fast Lane: http://mathinfastlane.com/ Holt online resources (* differentiated review worksheets, quizzes, and tests): http://my.hrw.com/ Khan Academy videos: https://www.khanacademy.org/math/cc-seventh-grade-math Study Jams interactive lessons: http://studyjams.scholastic.com/studyjams/jams/math/index.htm BrainPop videos: https://www.brainpop.com/math/ MobyMax lessons: https://www.mobymax.com/signin Virtual Nerd videos: http://www.virtualnerd.com/ PARCC practice Items: https://prc.parcconline.org/assessments/parcc-released-items USA Test Prep: http://www.usatestprep.com/member-login Tarver Academy: http://www.tarveracademy.com/ IXL: https://www.ixl.com/		

