Integers Unit Study Guide

Objective	Resources	Mastered It(check mark)	Need More Practice (check mark)
Master Addition and Subtraction of	Watch Addition/Subtraction Video		
Integers with high speed of execution. (Gr. 7 review)	Assessment: Complete Quiz		
Multiply integers using integer tiles	Watch Multiplying with Tiles Video		
and be able to draw out the process or	page 290 (1-4) page 291 (#5-13)		
represent it using actual tiles.	Assessment: No Online Quizprove to Mr. M you know how to do it		
	Watch Division using Tiles Video		
Divide integers using integer tiles and be able to draw out the process or represent it using actual tiles.	page 303/304 (#1-8, #12, #15)		
Top coom it come until mes.	Assessment: No online QuizProve to Mr. M that you know how to do it.		
	Watch Multiplying/Dividing Integer Video		
Generalize and apply a rule for determining the sign of the product	Multiplication (pgs 296-298 #1-11, #17-22)		
and <u>quotient</u> of integers without using the integer tiles.	Division (pg 309-311 #1-10,#18)		
	Assessment: Online Multiplication/Division Quiz		
Solve a given problem involving the division and multiplication of integers (2-digit by 2-digit) with the use of technology.	Make up 2 digit x 2 digit questions and show me that you know how to multiply and divide them on your calculator.		
Solve a given equation involving	Watch BEDMAS Video		
integers, taking into consideration	page 314,315 (#1-7)		
order of operations (BEDMAS).	Assessment: Online BEDMAS quiz		
	Watch Word Problem Video 1 and Debt/Savings Video		
	page 297 12-15		
Solve word problems related to debt,	page 305 #9, 10, 11, 14,16		
spending and savings using integers and random topics.	page 311 #15		
•	page 316/317 (#14,15, 17, 18,19, 23)		
	Assessment: Word Problem Quiz 1		
	Watch "Averaging Integers" online video.		
Solve word problems related to	page 315,316 #8-13		
calculating the <u>average (mean)</u> of a list	Page 317 #22		
of integers.	Assessment: Averaging Integers Online Quiz		
	Watch Word Problem 1 Video		
	page 292 #14-17		
Solve word problems that involve	page 299 (Mathlink Question in green box about weather balloons)		
objects ascending and descending.	Page 310 #12-14		
	page 316 (#15,16)		
	Assessment: Ascending/Descending Word Problem Quiz Online		
Create situations and word problems that involve multiplying and dividing integers.	Projectssee next page.		
Review	pages 318-321		
	Also Review All Practice Tests Online		

Project

Complete the following project

- Create a word problem and present the solution in a Youtube video tutorial, a comic book, song or chart. You may also use other creative ideas as long as it is approved by Mr. Melhem first. Your project topic must involve either an "Ascending/Descending Situation", "Debt and/or Savings Situation" or "Budgeting Situation". It must include strong evidence of either Multiplication and/or Division built into the solution. Use the word problems from the classroom, videos or textbook to help generate some possible topic ideas.
- Please note that it cannot be a simple problem that is written on a piece of paper and submitted. You must provide evidence of deep thinking in a professionally polished format.

Grading For This Unit

Mr. M's Online Quizzes (All work must be shown on a separate sheet of paper) (20%)

3 In Class Quizzes

Quiz 1: Multiplying and Dividing Integers (10%)

Quiz 2: BEDMAS (10%)

Quiz 3: Word Problems (10%)

1 Project(15%)

Unit Test (35%)

Sunday	Integers Monday	Review Adding/ Subtracting Integers Tuesday	Multiplying Using Tiles Wednesday	Dividing Using Tiles Thursday	Multiplying/ Dividing Without Tiles Friday	Saturda
Fe	brua	ry 2	015			
1	2 BEDMAS	3 Multiplication Division Quiz	4 Word Problems	5 BEDMAS Quiz	BEDMAS Quiz Math 8B Word Problems	
8	9 Word Problems	10 Word Problems	11 Word Problem Quiz	12 Word Problem Review	13 Word Problem Review	14
15	16 Integer Unit Test	Integer Project Due	18	19	20	21
22	23	24	25	26	27	28

Math - Problem Solving : Math Project Name Goes

Here:
Teacher Name: Mr. Melhern
Student Name:

CATEGORY	4	3	2	1			
Mathematical Concepts	Explanation shows complete understanding of the mathematical concepts used to solve the problem(s).	Explanation shows substantial understanding of the mathematical concepts used to solve the problem(s).	Explanation shows some understanding of the mathematical concepts needed to solve the problem(s).	Explanation shows very limited understanding of the underlying concepts needed to solve the problem(s) OR is not written.			
Mathematical Reasoning	Uses complex and refined mathematical reasoning.	Uses effective mathematical reasoning	Some evidence of mathematical reasoning.	Little evidence of mathematical reasoning.			
Mathematical Errors	90-100% of the steps and solutions have no mathematical errors.	Almost all (85-89%) of the steps and solutions have no mathematical errors.	Most (75-84%) of the steps and solutions have no mathematical errors.	More than 75% of the steps and solutions have mathematical errors.			
Explanation	Explanation is detailed and clear.	Explanation is clear.	Explanation is a little difficult to understand, but includes critical components.	Explanation is difficult to understand and is missing several components OR was not included.			
Mathematical Terminology and Notation	Correct terminology and notation are always used, making it easy to understand what was done.	Correct terminology and notation are usually used, making it fairly easy to understand what was done.	and notation are	There is little use, or a lot of inappropriate use, of terminology and notation.			