

Hattiesburg Public School District Grade 6 Mathematics Units 2015 – 2016



Unit 6: Introduction to Integers	Time Frame: 2 Weeks (Jan 18 - Feb 5, 2015)		
Content Standards	Standards for Mathematical Practice		
Major Standards	(1) Make sense of problems and persevere in solving		
quantities having opposite directions or values (e.g., temperature, above/below zero, elevation above/below zero sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.	 (2) Reason abstractly and quantitatively. (3) Construct viable arguments and critique the reasoning of others. (4) Model with mathematics. 		
 6.NS.6 Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar for negative number coordinates. a. Recognize opposite sign of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., -(-3) = 3, and that 0 is its own opposite. b. Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes. c. Find the position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane. 	 (5) Use appropriate tools strategically. (6) Attend to precision. (7) Look for and make use of structure. (8) Look for and express regularity in repeated reasoning. 		
6.NS.7 Understand ordering and absolute value of rational numbers.			



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a.C.	2013 - 2010				
a.	Interpret statements of inequality as statements about the relative position of				
	two numbers on a number line diagram.				
b.	Write, interpret, and explain statements of order for rational numbers in real- world contexts.				
с.	Understand the absolute value of a rational number as its distance from 0 on				
	the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.				
d.	Distinguish comparisons of absolute value from statements about order.				
6.NS.8 Solve real-world and mathematical problems by graphing points in all four					
quadrants of the coordinate plane. Include use of coordinates and absolute value to					
ind distances between points with the same first coordinate or the same second					
coordi	ate.				
Supporting Standards					
6.G.3 Draw polygons in the coordinate plane given coordinates for the vertices; use					
coordinates to find the length of a side joining points with the same first coordinate					
or the same second coordinate. Apply these techniques in the context of solving real-					
world problems.					
Additional Standards					

Pre-requisite Standards



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2015 - 2016

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Lesson Topic: Introducing	Lesson Topic: Integers on	Lesson Topic: Introduce	Lesson Topic: Compare	Lesson Topic: Integers on
Integers	the number line	absolute value	integers & absolute value	coordinate grid
Standard Ref: 6.NS.5	Standard Ref: 6.NS.6	Standard Ref: 6.NS.7	Standard Ref: 6.NS.7c	Standard Ref: 6.NS.8
Resource: Engage NY:	Resource: Engage NY:	Resource: Engage NY:	Resource: Engage NY:	Resource: Engage NY:
Module 3, Topic A, Lessons	Module 3, Topic A, Lessons	Module 3, Topic B, Lessons	Module 3, Topic B, Lesson	Module 3, Topic C, Lessons
1, 2, & 3	4 & 5	7&8	9	18 & 19
Strategy:	Strategy:	Strategy:	Strategy:	Strategy:
Lesson 6	Performance Task			
Lesson Topic: Polygons on	https://docs.google.com/doc			
the coordinate Grid	ument/d/1_3f-			
Standard Ref: 6.G.3	3FdWcWONmnQPdbJrWICV			
Resource: Engage NY:	URRd3LSqNWdwhi5jfqQ/edit			
Module 5: Topic B, Lessons	<pre>#heading=h.1fob9te</pre>			
7&8	(Hot Summer Cold Winter)			
Strategy:				