	NYS Grade 6 to Grade 8 Mathematics Learning Standards						
	Grade 8						
	Grade 8 The Number System						
	Æ	Standard Code	Current Standard	Revised Standard Recommendation for 2018-19	Additional Information/Notes		
Clusters	umbers that are not rational and approximate them by rational numbers.	8.NSA.1	1. Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	Understand informally that every number has a decimal expansion; the rational numberseathose with decimal expansions that terminate in 0s or eventually repeat. Know that other numbers are called irrational.	The suggested language for this standard comes from the June 2010Grade 68 Domain Progressions for Mathematics This replacement provides a understanding of the difference between rational and irrational numbers.		
	A. Know that there are numbers that by rational	8.NS.A.2	2. Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value expressions (e.g., 2). For example, by truncating the decimal expansion of 2 (square root of 2), show that 2 is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	2. Use rational proximations of irrational numbers to compare the size of irrational numbers, locate ther approximately on a number line diagram, and estimate the value of expressions, which includes, ² . For example, by truncating the decimal expansion 2 (square root of 2), show that 2 is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	n		

NYS Grade 6 to Grade 8 Mathematics Learning Standards							
Grade 8							
	Expressions and E	Equations (Inequalities)					
Standard Code	Current Standard	Revised Standard Recommendation for 2018-19	Additional Information/Notes				
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	NYS Grade 6 to Grade 8 Mathematics Learning Standards								
ľ		Grade 8							
		Expressions and Equations (Inequalities)							
			Standard Code	Current Standard	Revised Standard Recommendation for 2018-19	Additional Information/Notes			
		al A. Work with radicals and integer exponents.	8.EE.A.4	4. Perform operations with numbers expressed scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that hasden generated by technology.	4. Perform operations with numbers expressed in scientific notation, including problems where both standard decimal form and scientific notation are used. Use scientific notation and choose units of appropriate size for measuments of very large or very small quantities. Interpret scientific notation that has been generated by technology.	Clarification			
	Clusters	B. Understand the connections between proportional relationships, lines and linear equations.	8.EE.B.5	5. Graph proportional elationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. Fe example, compare a distance graph to a distance equation to determine which of	or				
		B. Understand the col relationships, lir							

Submit comments on the draft NYS Grade 8 Mathematics Learning Standards						
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NYS Grade 6 to Grade 8 Mathematics Learning Standards NYS Grade 6 to Grade 8 Mathematics Learning Standards						
		Standard Code	Current Standard	Revised Standard Recommendation for 2018-19	Additional Information/Notes	
S						
Clusters						
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	NYS Grade 6 to Grade 8 Mathematics Learning Standards							
	Grade 8							
			G	eometry				
Standard Code Current Standard Revised Standard Recommendation for 2018-19 Additional Info								
	A. Understand congruence and similarit using physical models, traparencies, or geometry software.	8.G.A.1	Verify experimentally the properties of rotations, reflections, and translations:	1. No Change				
ers		8.G.A.1a	Lines are taken to lines, and line segments to line segments of the same length.	1a. No Change				
Clusters		8.G.A.1b	1b. Angles are taken to angles of the same measu	1b. No Change				
		8.G.A.1c	1c. Parallel lines are taken to parallel lines.	1c. No Change				

			NYS Grade 6 to Grade 8 Mather	matics Learning Standards			
Grade 8 Statistics and Probability							
Standard Code Current Standard Revised Standard Recommendation for 2018-19 Additional Inform							
		8.SP.A.1	 Construct and interpret scatter plots for bivariate measuremed data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association. 	1 .			
Clusters	A. Investigate patterns of association in bivariate data.						