

List of Priority Standards as Shown on Report Card

Notes on Supporting Standards

Functions				
		8.F.1	Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output supports 8.F.5.	
		8.F.2	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically, in tables, or by verbal descriptions) supports 8.F.4.	
8.F.3	Interprets equations in slope-intercept form.			
		8.MP.4	Model with mathematics supports 8.F.3.	
8.F.4	Creates functions to model linear relationships.			
		8.MP.4	Model with mathematics supports 8.F.4.	
		8.MP.7	Look for and make use of structure supports 8.F.4.	
8.F.5	Uses functions to describe relationships between two quantities.			
		8.MP.8	Look for and express regularity in repeated reasoning supports 8.F.5.	
	The Number System			
		8.NS.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 supports standard 8.NS.2.	
8.NS.2	Uses rational approximations of irrational numbers.			
Expressions and Equations				
		8.EE.1	Know and apply the properties of integer exponents to generate	



List of Priority Standards as Shown on Report Card

Notes on Supporting Standards

			equivalent numerical expressions supports standard 8.EE.2.
8.EE.2	Uses and evaluate square roots and cube roots.		
		8.EE.3	Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other supports standard 8.EE.4.
8.EE.4	Performs operations with numbers expressed in scientific notation.		
		8.MP.6	Attend to precision supports standard 8.EE.4.
8.EE.5	Graphs proportional relationships.		
		8.EE.6	Use similar triangles to explain why the slope m is the same between any two distinct points on a nonvertical line in the coordinate plane; derive the equation y = mx for a line through the origin and the equation y = mx + b for a line intercepting the vertical axis at b supports standard 8.EE.8.
		8.EE.7	Solve linear equations in one variable. a. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers). b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms supports standard 8.EE.8.
8.EE.8	Analyzes and solves pairs of simultaneous linear equations.		



List of Priority Standards as Shown on Report Card

Notes on Supporting Standards

Geometry			
		8.G.1	Verify experimentally the properties of rotations, reflections, and translations: a. Lines are taken to lines, and line segments to line segments of the same length. b. Angles are taken to angles of the same measure. c. Parallel lines are taken to parallel lines supports standard 8.G.3.
		8.G.2	Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them supports standards 8.G.3.
8.G.3	Describes the effect of dilations, translations, rotations, and reflections.		
		8.G.4	Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them supports standard 8.G.3.
8.G.5	Justifies facts about angle relationships.		
		8.MP.3	Construct viable arguments and critique the reasoning of others supports standard 8.G.5.
		8.G.6	Explain a proof of the Pythagorean Theorem and its converse supports standard 8.G.7 and 8.G.8.
8.G.7	Applies the Pythagorean Theorem to determine unknown side lengths.		
8.G.8	Applies the Pythagorean Theorem to find distances.		
8.G.9	Solves problems using the formulas for the volumes of cones, cylinders, and spheres.		



List of Priority Standards as Shown on Report Card		Notes on Supporting Standards			
		8.MP.1	Make sense of problems and persevere in solving them supports standard 8.G.9.		
	Statistics and Probability				
8.SP.1	Constructs and interprets scatter plots.				
		8.SP.2	Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line supports standard 8.SP.1.		
8.SP.3	Uses the equation of a linear model to solve problems.				
		8.MP.4	Model with mathematics supports standard 8.SP.3.		
		8.SP.4	Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible		

association between the two variables supports standard 8.SP.3.