

Española Public Schools

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Website: www.k12espanola.org

8th Grade

Mathematics

Curriculum Guide

Developed: June 2016

Curriculum Team:

Emmanuel Espinoza, Team Leader

Curriculum Facilitation:

Vivian Valencia, Instructional Coach

MaryEllen Fresquez, Instructional Coach

Muan Jalencia

Adopted Curriculum

Grade Band	Resource	District Contact
7-8 2013-2018	College Preparatory Math Website: www.textbooks.cpm.org	Office of Curriculum, Instruction & Assessment Myra L. Martinez, Associate Superintendent Julie Gutierrez, CFVMS Principal Robert Quiñonez, CFVMS Assistant Principal
Pre K 2013-2018	Creative Classroom Website:	Office of Curriculum, Instruction & Assessment Myra L. Martinez, Associate Superintendent MaryEllen Fresquez, Pre K Coordinator
K -6 2013-2018	Moth Diagnesis and Intervention System Part 1, Grades KO1: Bookletz A-1. Website: www.pearsonsuccessnet.com	Office of Curriculum, Instruction & Assessment Myra L. Martinez, Associate Superintendent MaryEllen Fresquez, Instructional Coach Vivian Valencia, Instructional Coach
7-8 2013-2018	College Preparatory Math (CPM) CPM CPM teacher log in: http://textbooks.cpm.org/?238090954324249223 CPM student log in: http://en8467.textbooks.cpm.org/?409553627727330301	Office of Curriculum, Instruction & Assessment Myra L. Martinez, Associate Superintendent Robert Quiñonez, CFVMS Assistant Principal

Adopted Curriculum

9-12 *2013-2018*

College Preparatory Math (CPM)

CPM

CPM teacher log in:

http://textbooks.cpm.org/?238090954324249223

CPM student log in:

http://en8467.textbooks.cpm.org/?409553627727330301

Office of Curriculum, Instruction & Assessment

Myra L. Martinez, Associate Superintendent Nancy Suazo, EVHS Department Chair

Supplemental Curriculum Resources

Grade Band	Resource	District Contact:
Pre K	Insert Resource	Office of Curriculum, Instruction & Assessment
2016-2021	Website: Insert	Myra L. Martinez, Associate Superintendent
		MaryEllen Fresquez, Pre K Coordinator
	Insert Resource	Larmy Do Aguarra, Fodoral Bragrams (Title I)
	Website: Insert	Larry DeAguerro, Federal Programs (Title I) Deirdra Montoya, Special Education Director
		TBA, Assessment & Rtl Facilitator
K -6	Insert Resource	Office of Curriculum, Instruction & Assessment
2016-2021	Website: Insert	Myra L. Martinez, Associate Superintendent
2010 2021		MaryEllen Fresquez, Instructional Coach
	Insert Resource	Vivian Valencia, Instructional Coach
	Website: Insert	Larry DoAguerra, Foderal Brograms (Title I)
		Larry DeAguerro, Federal Programs (Title I) Deirdra Montoya, Special Education Director
		TBA, Assessment & Rtl Facilitator
		,
7-8	Insert Resource	Office of Curriculum, Instruction & Assessment
2016-2021	Website: Insert	Myra L. Martinez, Associate Superintendent
	Edgenuity	Robert Quiñonez, CFVMS Assistant Principal
	where learning clicks	Insert Name, Edgenuity Administrator
	Website: Insert	Larry DeAguerro, Federal Programs (Title I) Deirdra Montoya, Special Education Director
		TBA, Assessment & RtI Facilitator
9-12	Insert Resource	Office of Curriculum, Instruction & Assessment
2015-2020	Website:	Myra L. Martinez, Associate Superintendent
		Insert Name, EVHS Department Chair
		Insert Name, Edgenuity Administrator
		Larry DeAguerro, Federal Programs (Title I)
		Deirdra Montoya, Special Education Director
	≭Ed genuity ⁻	TBA, Assessment & RtI Facilitator
	where learning clicks	
	Website: Insert	

Adopted Curriculum

01	Adopted Carriculani	District Contact:
Grade Band	Resource	District Contact:
Pre K 2016-2021	Insert Resource Website: Insert	Office of Curriculum, Instruction & Assessment Myra L. Martinez, Associate Superintendent MaryEllen Fresquez, Pre K Coordinator
	PreK Observation & Portfolios	Assessment Contact: TBA, Assessment & Rtl Facilitator
K-1	Envisions: Common Core Topic Book Assessments Topic Mat Assessments Renaissance Learning: RENAISSANCE LEARNING STAR EARLY LITERACY (Numeracy) https://hosted39.renlearn.com/258790/default.aspx	Office of Curriculum, Instruction & Assessment Myra L. Martinez, Associate Superintendent MaryEllen Fresquez, Instructional Coach Vivian Valencia, Instructional Coach Assessment Contact: TBA, Assessment & Rtl Facilitator
2-12	Envisions: Topic Book Assessments Topic Mat Assessments (2 nd) Renaissance Learning: RENAISSANCE LEARNING STARMath https://hosted39.renlearn.com/258790/default.aspx	Office of Curriculum, Instruction & Assessment Myra L. Martinez, Associate Superintendent MaryEllen Fresquez, Instructional Coach Vivian Valencia, Instructional Coach Assessment Contact: TBA, Assessment & Rtl Facilitator
3-11	PARCC Partnership for Assessment of Readiness for College and Careers	Office of Curriculum, Instruction & Assessment Myra L. Martinez, Associate Superintendent MaryEllen Fresquez, Instructional Coach Vivian Valencia, Instructional Coach

Adopted Curriculum

		Assessment Contact: TBA, Assessment & RtI
7-12	End of Course Exams (EoC) Public Education Department	Facilitator Office of Curriculum, Instruction & Assessment Myra L. Martinez, Associate Superintendent MaryEllen Fresquez, Instructional Coach
	CPM teacher log in: http://textbooks.cpm.org/?238090954324249223 CPM student log in: http://en8467.textbooks.cpm.org/?409553627727330301	Vivian Valencia, Instructional Coach Assessment Contact: TBA, Assessment & RtI Facilitator

Supplemental Curriculum Resources

Grade	Resource	District Contact:
Band		
7-8	Pearson's Connected Mathematics Project Textbook	Office of Curriculum, Instruction
2015-2020	<u>www.kutasoftware.com</u>	& Assessment
	<u>www.ixl.com</u>	Myra L. Martinez, Associate
	<u>www.teachertube.com</u>	Superintendent
	Common Core Crosswalk Coach 6-8	
	Common Core Buckle Down 6-8	Emmanuel Espinoza, Math Lead
	Common Core Practice Coach 6-8	Teacher
	Assessment Common Core Coach 6-8	Julie Gutierrez, Edgenuity
	<u>www.tenmarks.com</u>	Administrator
	www.thatquiz.com	Larry DeAguero, Federal
	Pizzazz Pre-Algebra Workbook	Programs (Title I)
	Engage NY	Deirdra Montoya, Special
	https://www.engageny.org/common-core-curriculum	Education Director
	Making Number Talks Matter Textbook	TBA, Assessment & RTI
	<u>www.khanacademy.com</u>	Facilitator
	https://www.illustrativemathematics.org/	
	http://www.insidemathematics.org/	
	http://www.learningupgrade.com/algebraup/au_index.asp	
	www.hoodamath.com	
	www.coolmath.com	
	https://learnzillion.com/resources/73932	
	XEdgenuity ™	
	Website: https://learn.education2020.com/	

Assessment Resources

Grade Band	Resource	District Contact:
7-8	Core Assessments	Emmanuel Espinoza, Math Lead Teacher
	College Preparatory Math (CPM)	
6-12	Supplemental Assessments	Emmanuel Espinoza, Math Lead Teacher
6-8	Common Core Crosswalk Coach 6-8	
	Common Core Buckle Down 6-8	
	Common Core Practice Coach 6-8	
	Assessment Common Core Coach 6-8	
	Connected Mathematics Project (CMP)	
	Assessments	
2-12	STAR Math	Office of Curriculum, Instruction &
		Assessment
		Myra L. Martinez, Associate Superintendent
		MaryEllen Fresquez, Instructional Coach
		Vivian Valencia, Instructional Coach
		Assessment Contact:
		TBA, Assessment & RTI Facilitator
3-11	PARCC	Office of Curriculum, Instruction &
		Assessment
		Myra L. Martinez, Associate Superintendent
		MaryEllen Fresquez, Instructional Coach
		Vivian Valencia, Instructional Coach
		Assessment Contact:
		TBA, Assessment & RTI Facilitator
7-12	End of Course Exams (EoC)	Office of Curriculum, Instruction &
		Assessment
		Myra L. Martinez, Associate Superintendent
		MaryEllen Fresquez, Instructional Coach
		Vivian Valencia, Instructional Coach
		Assessment Contact:
		TBA, Assessment & RTI Facilitator

8th Grade

2016-2017

UNIT 1	Start: 8/15/2016 Teaching Days: 43		Remediation Days: 6		End: 10/14/2016
DOMAIN	COMMON CORE STATE STANDARDS	FOCUS	RESOURCES (Core & Supplemental)	ASSESSMENTS (Formative and Summative)	PARCC FRAMEWORK
The Number System	Know that there are numbers that are not rational, and approximate them by rational numbers. 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.	A. What is an irrational number? (Classify a number based on its decimal expansion) B. Convert repeating decimal into a rational number.	Core Adapted College Preparatory Math (CPM) Chapter 2, 3 Supplement Connected Mathematics	FORMATIVE College Preparatory Math (CPM) Chapter 2, 3 MATH TASK	The Number System A. Know that there are numbers that are not rational, and approximate them by rational
	8.NS.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 of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$ (square root of 2), show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	A. Estimate and find rational approximations for irrational numbers (between which two whole numbers?) B. Plot estimated value on a number diagram.	Textbook www.kutasoftware.co m www.ixl.com www.teachertube.com Triumph Learning: Common Core Crosswalk Coach 6-8 Common Core Buckle Down 6-8	Triumph Learning Assessment Common Core Coach 6-8	numbers. Expressions and Equations
Expressions and Equations	Work with radicals and integer exponents. 8.EE.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $3^2 \times 3^(-5) = 3^(-3) = 1/(3^3) = 1/27$.		Common Core Practice Coach 6-8 www.tenmarks.com www.thatquiz.com Pizzazz Pre-Algebra Engage NY Success to Ladders		A. Work with radicals and integer exponents. B. Understand the connections
	8.EE.2* Use square root and cube root symbols to represent solutions to equations of the form x^2 = p and x^3 = p, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that V2 is irrational.	A. Use and evaluate square roots. B. Use and evaluate cube roots.	Making Number Talks Matter www.khanacademy.c om https://www.illustrati		between proportional relationships, lines and linear equations

^{*} Indicates a Common Core standard has been broken into smaller areas of emphasis. For this module, only the listed areas are to be covered and/or assessed.

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2016-2017

Expressions
and
Equations

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. For example, estimate the population of the United States as 3×10^8 and the population of the world as 7×10^9 , and determine that the world population is more than 20 times larger.

EE.4* Perform operations with numbers expressed in 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 has been generated by technology.

Analyze and solve linear equations and pairs of simultaneous linear equations.

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.

A. Estimate quantities using scientific notation.
B. Compare two numbers in scientific notation.

A. Perform operations with numbers in scientific notation.
B. scientific notation and choose appropriate units for measurement.

A. Solve equations B. Transform equation to simpler form. vemathematics.org/ http://www.insidemat hematics.org/ http://www.learningu pgrade.com/algebrau p/au_index.asp

www.hoodamath.com www.coolmath.com

https://learnzillion.co m/resources/73932 A. Analyze and solve linear equations and pairs of simultaneous linear equations.

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2016-2017

UNIT 2	Start: 10/17/2016 Teaching Days: 45		Remediation Days: 4		End: 3/17/2017
DOMAIN	COMMON CORE STATE STANDARDS	FOCUS	RESOURCES (Core & Supplemental)	ASSESSMENTS (Formative and Summative)	PARCC FRAMEWORK
Expressions and Equations	Understand the connections between proportional relationships, lines, and linear equations. EE.5* Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. (For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.) 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 =	A. Graph proportional relationships recognizing slope. B. Compare two different proportions represented differently. A. Use similar triangles to explain same slope. B. Derive y=mx (0,0) C. Derive y=mx (0,b)	Core Adapted College Preparatory Math (CPM) Chapter 2, 3, 4, 5, 8 Supplement Connected Mathematics Textbook www.kutasoftware.co m www.ixl.com www.teachertube.com Triumph Learning:	FORMATIVE College Preparatory Math (CPM) Chapter 2, 3, 4, 5, 8 MATH TASK SUMMATIVE Triumph Learning Assessment Common Core Coach 6-8	Expressions and Equations A. Work with radicals and integer exponents. B. Understand the connections between proportional relationships, lines and linear
	mx + b for a line intercepting the vertical axis at b. Analyze and solve linear equations and pairs of simultaneous linear equations.	C. Derive y-IIIx (0,0)	Common Core Crosswalk Coach 6-8 Common Core Buckle Down 6-8 Common Core		equations. ■ C. Analyze and solve linear
	EE.8* Analyze and solve pairs of simultaneous linear equations. a. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.		Practice Coach 6-8 www.tenmarks.com www.thatquiz.com Pizzazz Pre-Algebra Engage NY Success to Ladders Making Number Talks		equations and pairs of simultaneous linear equations.
	b. Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For example, $3x + 2y = 5$ and $3x + 2y = 6$ have no solution because $3x + 2y$ cannot simultaneously be 5 and 6.		Matter www.khanacademy.c om https://www.illustrati		

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				2016-2017
Exponents and Equations	c. Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.		vemathematics.org/ http://www.insidemat hematics.org/ http://www.learningu pgrade.com/algebrau p/au_index.asp	
Functions	 Define, evaluate, and compare 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. (Function notation is not required in Grade 8.) 8.F.2 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the 		www.hoodamath.com www.coolmath.com https://learnzillion.co m/resources/73932	Functions A. Define, evaluate and compare functions. B. Use functions to model relationships between quantities.
	 8.F.3 Interpret the equation y = mx + b as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. For example, the function A = s^2 giving the area of a square as a function of its side length is not linear because its graph contains the points (1,1), (2,4) and (3,9), which are not on a straight line. Use functions to model relationships between quantities 	A. Interpret slope/y-intercept. B. Analyze linear/non-linear functions.		
	8.F.4* Construct a function to model a linear relationship between two quantities. Determine the rate	A. Construct a linear function.		

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of change and initial value of the function from a	B. Determine and		
description of a relationship or from two (x, y) values,	interpret the slope and		
including reading these from a table or from a graph.	y-intercept.		
Interpret the rate of change and initial value of a linear			
function in terms of the situation it models, and in terms			
of its graph or a table of values.			

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2016-2017

UNIT 3	Start: 1/9/2017 Teaching Days: 43		Remediation Days: 4	E	nd: 3/17/2017
DOMAIN	COMMON CORE STATE STANDARDS	FOCUS	RESOURCES (Core & Supplemental)	ASSESSMENTS (Formative and Summative)	PARCC FRAMEWORK
	Understand congruence and similarity using physical		Core Adapted	<u>FORMATIVE</u>	Geometry
	models, transparencies, or geometry software.		College Preparatory	College	A. Understand
			Math (CPM)	Preparatory Math	congruence and
Geometry	8.G.1* Verify experimentally the properties of		Chapter 2, 3, 4, 5, 8	(CPM)	similarity using
	rotations, reflections, and translations:			Chapter 2, 3, 4, 5,	physical models,
	a. Lines are taken to lines, and line segments to line		<u>Supplement</u>	8	transparencies or
	segments of the same length.		Connected	MATH TASK	geometry
	b. Angles are taken to angles of the same measure.		Mathematics		software.
	c. Parallel lines are taken to parallel lines.		Textbook	SUMMATIVE	
			www.kutasoftware.co	Triumph Learning	B. Solve real-
	8.G.2 Understand that a two-dimensional figure is		<u>m</u>	Assessment	world and
	congruent to another if the second can be obtained		www.ixl.com	Common Core	<mark>mathematical</mark>
	from the first by a sequence of rotations, reflections,		www.teachertube.com	Coach 6-8	<mark>problems</mark>
	and translations; given two congruent figures, describe a		Triumph Learning:		involving volume
	sequence that exhibits the congruence between them.		Common Core		of cylinders,
			Crosswalk Coach 6-8		cones and
	8.G.3 Describe the effect of dilations, translations,		Common Core Buckle		<mark>spheres.</mark>
	rotations and reflections on two-dimensional figures		Down 6-8		
	using coordinates.		Common Core		
			Practice Coach 6-8		
	8.G.4 Understand that a two-dimensional figure is		www.tenmarks.com		
	similar to another if the second can be obtained from		www.thatquiz.com		
	the first by a sequence of rotations, reflections,		Pizzazz Pre-Algebra		
	translations, and dilations; given two similar two-		Engage NY		
	dimensional figures, describe a sequence that exhibits		Success to Ladders		
	the similarity between them.		Making Number Talks		
			Matter		
	8.G.5* Use informal arguments to establish facts about	A. Interior and exterior			
	the angle sum and exterior angle of triangles, about the	angle sums.	www.khanacademy.c		
	angles created when parallel lines are cut by a	B. Transversals	<u>om</u>		
	transversal, and the angle-angle criterion for similarity of	C. Similarity	https://www.illustrati		

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	triangles. (For example, arrange three copies of the same triangle so that the three angles appear to form a line, and give an argument in terms of transversals why this is so.)		vemathematics.org/ http://www.insidemat hematics.org/ http://www.learningu pgrade.com/algebrau	
Geometry	Solve real-world and mathematical problems involving volume of cylinders, cones and spheres. CC.8.G.9 Solve real-world and mathematical problems involving volume of cylinders, cones and spheres. Know the formulas for the volume of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.	A. Cones/cylinders B. Spheres	p/au_index.asp www.hoodamath.com www.coolmath.com https://learnzillion.co m/resources/73932	

Key: ■ Major Clusters; Supporting Clusters; Madditional Clusters

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UNIT 4	Start: 3/20/2017 Teaching Days: 43		Remediation Days: 7	i i	2016-2017 End: 5/19/2017
DOMAIN	COMMON CORE STATE STANDARDS	FOCUS	RESOURCES (Core & Supplemental)	ASSESSMENTS (Formative and Summative)	PARCC FRAMEWORK
	Understand and apply the Pythagorean Theorem.		Core Adapted	<u>FORMATIVE</u>	
Geometry	8.G.6 Explain a proof of the Pythagorean Theorem and its converse.		College Preparatory Math (CPM) Chapter 2, 3, 4, 5, 8	College Preparatory Math (CPM) Chapter 2, 3, 4, 5,	Geometry A. Understand and apply the Pythagorean
	8.G.7* Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.	A. Two-dimensional B. Three-dimensional	Supplement Connected Mathematics	8 MATH TASK	Theorem.
	8.G.8 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.		Textbook www.kutasoftware.co m	SUMMATIVE Triumph Learning Assessment	
	Use functions to model relationships between		www.ixl.com www.teachertube.com	Common Core Coach 6-8	
Functions	8.F5 Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally. Investigate patterns of association in bivariate data.		Triumph Learning: Common Core Crosswalk Coach 6-8 Common Core Buckle Down 6-8 Common Core Practice Coach 6-8 www.tenmarks.com		Functions A. Use functions to model relationships between quantities.
Statistics			www.thatquiz.com		Statistics and
and Probability	8.SP.1 Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.		Pizzazz Pre-Algebra Engage NY Success to Ladders Making Number Talks Matter		Probability A. Investigate patterns of association in bivariate data.
	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		www.khanacademy.co m https://www.illustrati		

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	fit a straight line, and informally assess the model fit by	vemathematics.org/	
	judging the closeness of the data points to the line.	http://www.insidemat	
		hematics.org/	
Statistics	8.SP.3 Use the equation of a linear model to solve	http://www.learningu	
and	problems in the context of bivariate measurement data,	pgrade.com/algebrau	
Probability	interpreting the slope and intercept. (For example, in a	p/au index.asp	
	linear model for a biology experiment, interpret a slope		
	of 1.5 cm/hr as meaning that an additional hour of	www.hoodamath.com	
	sunlight each day is associated with an additional 1.5 cm	www.coolmath.com	
	in mature plant height.)		
		https://learnzillion.co	
	8.SP.4 Understand that patterns of association can also	m/resources/73932	
	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. (For example, collect data		
	from students in your class on whether or not they have		
	a curfew on school nights and whether or not they have		
	assigned chores at home. Is there evidence that those		
	who have a curfew also tend to have chores?)		

^{**}Pacing guide reference: http://commoncore.bryantschools.org/index.php/grades-6-8/

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