2010 Mathematics Textbooks and Instructional Materials Committee Member
Correlation to the 2009 Mathematics Standards of Learning and Curriculum Framework – Grade 7

Text/Instructional Material Title: ____Pre-Algebra_____

Publisher: _____McDougal Littell, a division of Houghton Mifflin Harcourt_____

Section I. Correlation with the Mathematics 2009 SOL and Curriculum Framework	Rating		
	Adequate	Limited	No Evidence
7.1	X		
7.2	X		
7.3		X	
7.4	X		
7.5	X		
7.6	X		
7.7	X		
7.8	X		
7.9	X		
7.10	X		
7.11	X		
7.12	X		
7.13	X		
7.14	X		
7.15	X		
7.16	X		

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Section II. Additional Criteria: Instructional Planning and Support	**Rating**		
	Adequate	**Limited**	**No Evidence**
1. Materials emphasize the use of effective instructional practices and learning theory.			
a. Students are guided through critical thinking and problem-solving approaches.		**X**	
b. Concepts are introduced through concrete experiences that use manipulatives and other technologies.		**X**	
c. Multiple opportunities are provided for students to develop and apply concepts through the use of calculators, computers, and other technologies.	**X**		
d. Students use the language of mathematics including specialized vocabulary and symbols.	**X**		
e. Students use a variety of representations (graphical, numerical, symbolic, verbal, and physical) to connect mathematical concepts.	**X**		
2. The mathematics content is significant and accurate.			
a. Materials are presented in an organized, logical manner which represents the current thinking on how students learn mathematics.	**X**		
b. Materials are organized appropriately within and among units of study.	**X**		
c. Format design includes titles, subheadings, and appropriate cross-referencing for ease of use.	**X**		
d. Writing style, length of sentences, vocabulary, graphics, and illustrations are appropriate.	**X**		
e. Level of abstraction is appropriate, and practical/real-life examples, including careers, are provided.	**X**		
f. Sufficient applications are provided to promote depth of application.	**X**		
3. Materials present content in an accurate, unbiased manner.	**X**		

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Mathematics Standard of Learning	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.1 The student will			
a) investigate and describe the concept of negative exponents for powers of ten;		X	
b) determine scientific notation for numbers greater than zero;	**X**		
c) compare and order fractions, decimals, percents, and numbers written in scientific notation;	**X**		
d) determine square roots; and	**X**		
e) identify and describe absolute value for rational numbers.	**X**		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.2 The student will describe and represent arithmetic and geometric sequences, using variable expressions.	**X**		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.3 The student will			
a) model addition, subtraction, multiplication, and division of integers; and		X	
b) add, subtract, multiply, and divide integers.	**X**		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.4 The student will solve single-step and multistep practical problems, using proportional reasoning.	**X**		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.5 The student will			
a) describe volume and surface area of cylinders;	**X**		
b) solve practical problems involving the volume and surface area of rectangular prisms and cylinders; and	**X**		
c) describe how changing one measured attribute of a rectangular prism affects its volume and surface area.		X	
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.6 The student will determine whether plane figures—quadrilaterals and triangles—are similar and write proportions to express the relationships between corresponding sides of similar figures.	**X**		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.7 The student will compare and contrast the following quadrilaterals based on properties: parallelogram, rectangle, square, rhombus, and trapezoid.	**X**		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.8 The student, given a polygon in the coordinate plane, will represent transformations (reflections, dilations, rotations, and translations) by graphing in the coordinate plane.	**X**		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.9 The student will investigate and describe the difference between the experimental probability and theoretical probability of an event.	X		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.10 The student will determine the probability of compound events, using the Fundamental (Basic) Counting Principle.	X		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.11 The student, given data for a practical situation, will			
a) construct and analyze histograms; and	X		
b) compare and contrast histograms with other types of graphs presenting information from the same data set.	X		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.12 The student will represent relationships with tables, graphs, rules, and words.	X		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.13 The student will			
a) write verbal expressions as algebraic expressions and sentences as equations and vice versa; and	X		
b) evaluate algebraic expressions for given replacement values of the variables.	X		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.14 The student will			
a) solve one- and two-step linear equations in one variable; and	X		
b) solve practical problems requiring the solution of one- and two-step linear equations.	X		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.15 The student will			
a) solve one-step inequalities in one variable; and	X		
b) graph solutions to inequalities on the number line.	X		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard	**Rating Scale** Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	**Limited**	**No Evidence**
7.16 The student will apply the following properties of operations with real numbers:			
a) the commutative and associative properties for addition and multiplication;	X		
b) the distributive property;	X		
c) the additive and multiplicative identity properties;	X		
d) the additive and multiplicative inverse properties; and	X		
e) the multiplicative property of zero.			X
Comments: Provide comments to support "limited" or "no evidence" ratings.			