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Comprehensive Math & Science Plan



Mathematics Pacing Guide 7th Grade CMP2





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Mathematics Pacing Guide: CMP2

Grade 7

		Common Core State Standards for Mathematics	Program Materials	Formative Assessments	Summative Assessments
September	Domain: The Number Systems 7.NS	<p>Cluster: Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.</p> <p>Standards:</p> <p>7.NS.1 7.NS.2</p> <p>7.NS.3</p>	<p>Book: Accentuate the Negative Investigation 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5</p> <p>Investigation 3.1, 3.2, 3.3, 3.4</p>	<p>Classroom Assessments Based on Standards (CABS) and Constructed Response items (CRs) can be found on the Milwaukee Mathematics Partnership (MMP) website: www.mmp.uwm.edu</p> <p>7.NS Standard 1 CABS Grade 8 "Absolute Value"</p> <p>7.NS Standard 2 CABS Grade 7 #10a</p>	



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October	Domains: The Number System 7.NS Expressions and Equations 7.EE	<p>Cluster: Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.</p> <p>Standard: 7.NS.3</p> <p>Cluster: Solve real-life and mathematical problems using numerical and algebraic expressions and equations.</p> <p>Standards: 7.EE.3 7.EE.4</p>	<p>Book: Accentuate the Negative</p> <p>Investigation 4.1, 4.2, 4.3</p> <p>Book: Variables and Patterns</p> <p>Investigation 1.1, 1.2, 1.3, 1.4, 1.5, 2.1, 2.2, 2.3, 3.1, 3.2</p>	<p>Classroom Assessments Based on Standards (CABS) and Constructed Response items (CRs) can be found on the Milwaukee Mathematics Partnership (MMP) website: www.mmp.uwm.edu</p>	<p>After NS.1, NS.2, and NS.3, use pages 71 - 73 in Assessment Resources.</p> <p>After Investigations 1 and 2, use page 16 in Assessment Resources.</p>



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		Common Core State Standards for Mathematics	Program Materials	Formative Assessments	Summative Assessments
November/December	Domain: Expressions and Equations 7.EE	Cluster: Solve real-life and mathematical problems using numerical and algebraic expressions and equations. Standards: 7.EE.3 7.EE.4	Book: Variables and Patterns Investigation 3.3, 4.1, 4.2, 4.3	Classroom Assessments Based on Standards (CABS) and Constructed Response items (CRs) can be found on the Milwaukee Mathematics Partnership (MMP) website: www.mmp.uwm.edu 7.EE Standards 1, 2 CABS Grade 8 "Absolute Value", "Equivalent or Not"	After completing EE.3 and EE.4, use the Unit Test for Variables and Patterns on pages 17 and 18 in Assessment Resources . After completing EE.1 and EE.2, use the Unit Test for Moving Straight Ahead on pages 92 and 93 in Assessment Resources .
		Cluster: Use properties of operations to generate equivalent expressions. Standards: 7.EE.2 7.EE.1	Book: Moving Straight Ahead Investigation 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4 Investigation 3.1, 3.2, 3.3, 3.4, 3.5, 4.1, 4.2, 4.3, 4.4		



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		Common Core State Standards for Mathematics	Program Materials	Formative Assessments	Summative Assessments
January	Domain: Ratios and Proportional Relationships 7.RR	Cluster: Analyze proportional relationships and use them to solve real-world and mathematical problems. Standards: 7.RR. 2 7.RR.3 7RR.1 7.RR.2	Book: Comparing and Scaling Investigation 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 3.1, 3,2, 3,3, 3.4 Ace Investigation 3 page 46 # 34 Investigation 4.1, 4.2, 4.3	Classroom Assessments Based on Standards (CABS) and Constructed Response items (CRs) can be found on the Milwaukee Mathematics Partnership (MMP) website: www.mmp.uwm.edu 7.RR Standard 1 CABS Grade 8 "Rectangle Ratio 1" Grade 8 "Rectangle Ratio 2" Grade 8 "Silvia's Hike" 7.RR Standard 3 CABS Grade 8 "Paxolai's Purchase" Grade 8 "Toni's Taxes" Grade 8 "Planetary Weights"	After completing RR.1, RR.2, and RR.3, use the Unit Test for Comparing and Scaling pages 56 and 57 in Assessment Resources .



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		Common Core State Standards for Mathematics	Program Materials	Formative Assessments	Summative Assessments
February	Domains: Ratios and Proportional Relationships 7.RR Geometry 7.G	<p>Cluster: Analyze proportional relationships and use them to solve real-world and mathematical problems.</p> <p>Standards: 7.RR. 2 7.RR.3</p>	<p>Book: Comparing and Scaling</p> <p>Unit Project page 63 – Paper Pool (optional)</p>	<p>Classroom Assessments Based on Standards (CABS) and Constructed Response items (CRs) can be found on the Milwaukee Mathematics Partnership (MMP) website: www.mmp.uwm.edu</p>	<p>After Investigation 2, use pages 38 and 39 in Assessment Resources.</p>
		<p>Cluster: Draw, construct, and describe geometrical figures and describe the relationships between them.</p> <p>Standard: 7.G.1</p> <p>Cluster: Solve real life and mathematical problems involving angle measure, area, surface area, and volume.</p> <p>Standard: 7.G.5</p>	<p>Book: Stretching and Shrinking</p> <p>Investigation 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 3.1, 3.2, 3.3</p> <p>Ace Investigation 3 page 50 # 22 - 24</p>		



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		Common Core State Standards for Mathematics	Program Materials	Formative Assessments	Summative Assessments
March	Domain: Geometry 7.G	Cluster: Draw, construct, and describe geometrical figures and describe the relationships between them. Standard: 7.G.1	Book: Stretching and Shrinking Investigation 4.1, 4.2, 4.3, 5.1, 5.2, 5.3	Classroom Assessments Based on Standards (CABS) and Constructed Response items (CRs) can be found on the Milwaukee Mathematics Partnership (MMP) website: www.mmp.uwm.edu	After G.1 and G.5, use pages 40 and 42 in Assessment Resources . After G.2, use page 98 in Assessment Resources .
		Cluster: Draw, construct, and describe geometrical figures and describe the relationships between them. Standard: 7.G.2	Book: Filling and Wrapping Investigation 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3	7.G Standards 1-3 CABS Grade 7 # 10a-b, Grade 8 “Similar Triangles”	



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April	Domains: Geometry 7.G Statistics and Probability 7.SP	<p>Cluster: Solve real-life and mathematical problems involving angle measure, area, surface area, and volume. Standard: 7.G.6</p> <p>Cluster: Use random sampling to draw inferences about a population. Standards: 7.SP.1 7.SP.2</p> <p>Cluster: Draw informal comparative inferences about two populations. Standard: 7.SP.3</p>	<p>Book: Filling and Wrapping</p> <p>Investigation 3.1,3.2,3.3</p> <p>Book: Data Distributions</p> <p>Investigation 1.1, 1.2, 1.3, 1.4</p> <p>Investigation 2.1, 2.2, 2.3, 2.4</p>	<p>Classroom Assessments Based on Standards (CABS) and Constructed Response items (CRs) can be found on the Milwaukee Mathematics Partnership (MMP) website: www.mmp.uwm.edu</p> <p>7.G Standards 4-6 CABS Grade 7 # 1,2, 1 Grade 8 “Scott’s Reasoning”, “Paper Tube”, “Making Conjectures”</p>	<p>After completing G.6, use page 99 in Assessment Resources.</p>



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		Common Core State Standards for Mathematics	Program Materials	Formative Assessments	Summative Assessments
May/June	Domain: Statistics and Probability 7.SP	Cluster: Draw informal comparative inferences about two populations. Standard: 7.SP.4	Book: Data Distributions Investigation 3.1, 3.2, 3.3, 3.4, 4.1, 4.2	Classroom Assessments Based on Standards (CABS) and Constructed Response items (CRs) can be found on the Milwaukee Mathematics Partnership (MMP) website: www.mmp.uwm.edu	After SP.1, Sp.2, SP.3, and SP.4, use page 129 in Assessment Resources and page 167 in Additional Practice and Skills Work book . After SP.5, SP.6, SP.7, and SP.8, use pages 123 and 124 in Assessment Resources .
		Cluster: Investigate chance, processes and develop, use, and evaluate probability models. Standards: 7.SP.5 7.SP.6 7.SP.7 7.SP.8	Book: What Do You Expect? Investigation 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 3.1, 3.2, 3.3, 4.1, 4.2, 4.3		



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Note: Out of the 24 Common Core State Standards for Grade 7 mathematics, it is the pacing authors' opinion that two standards are not reflected in the seventh grade CMP2 textbook. Those standards are 7.G.3 (describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids) and 7.G.4 (know the formulas for the area and circumference of a circle and use them to solve problems given informal derivation of the relationship between the circumference and area of a circle).

Additionally, the seventh grade pacing authors found that there is one standard that is lacking depth in the seventh grade curriculum: 7.RR.1