

Prentice Hall Connected Mathematics 2, 6th Grade Units © 2006
Correlated to:
Michigan Grade Level Content Expectations (GLCE), Mathematics (Grade 6)

MICHIGAN MATHEMATIC GRADE LEVEL CONTENT EXPECTATIONS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
NUMBER AND OPERATIONS	
Multiply and divide fractions	
N.MR.06.01 Understand division of fractions as the inverse of multiplication; e.g.: $4/5 \div 2/3 = \underline{\quad}$, then $2/3 \times \underline{\quad} = 4/5$, so $\underline{\quad} = 4/5 \cdot 3/2 = 12/10$.	N / A
N.FL.06.02 Given an applied situation involving dividing fractions, write a mathematical statement to represent the situation.	SE: Bits and Pieces II: Looking Back and Looking Ahead: 63
	TE: Bits and Pieces II: 118-119
	TR: Transparencies; Notebook Check
	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: amj-4051; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
N.MR.06.03 Solve for the unknown in equations such as: $1/2 \div \underline{\quad} = 1$ $3/4 \div \underline{\quad} = 1/4$ and $1/2 = 1 \cdot \underline{\quad}$	SE: Bits and Pieces II: Investigation 4-Dividing With Fractions: 53-54, 60
	TE: Bits and Pieces II: 113-114, 118
	TR: Transparencies 4.4; Notebook Check; Self-Assessment; Spanish Assessment Resources
	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
N.FL.06.04 Multiply and divide any two fractions, including mixed numbers, fluently.	SE: Bits and Pieces II: Investigation 3-Multiplying With Fractions: 32-47; Investigation 4-Dividing With Fractions: 52-54, 56-62; Looking Back and Looking Ahead: 63-64
	TE: Bits and Pieces II: 59-88, 103-119
	TR: Transparencies 3.2, 3.3, 3.4, 3.5, 4.4; Labsheets 3.1; Notebook Check; Self-Assessment; Spanish Assessment Resources

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	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: ama-4354, ame-4412, ama-4454, amj-4051; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
Represent rational numbers as fractions or decimals	
N.ME.06.05 Order rational numbers and place them on the number line.	SE: Bits and Pieces I: 30, 33, Investigation 3-Moving Between Fractions and Decimals: 45-46, 48, 50, 52; Looking Back and Looking Ahead: 70; Bits and Pieces III: 16, 45
	TE: Bits and Pieces I: 74-75, 101-106, 108-110, 135; Bits and Pieces III: 34, 81
	TR: Transparencies 3.5A, 3.5B; Labsheets 3.5; Notebook Check; Self-Assessment; Spanish Assessment Resources
	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: ame-2347; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
N.ME.06.06 Represent rational numbers as fractions or terminating decimals when possible, and translate between these representations.	SE: Bits and Pieces I: Investigation 3-Moving Between Fractions and Decimals: 35-44, 47-53; Bits and Pieces III: Investigation 3-The Decimal Divide: 41-42; 45; 47
	TE: Bits and Pieces I: 79-100, 107-111; Bits and Pieces III: 75-78, 80, 82
	TR: Bits and Pieces I: Transparencies 3.1A-C, 3.2A-E; Labsheets 3.1, 3.2, 3.3; Notebook Check; Self-Assessment; Spanish Assessment Resources Bits and Pieces III: Notebook Check; Self-Assessment; Spanish Assessment Resources
	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: ama-2354; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
N.ME.06.07 Understand that a fraction or a negative fraction is a quotient of two integers, e.g., $-8/3$ is -8 divided by 3.	N / A

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MICHIGAN MATHEMATIC GRADE LEVEL CONTENT EXPECTATIONS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Add and subtract integers and rational numbers	
N.MR.06.08 Understand integer subtraction as the inverse of integer addition; add and subtract integers using integers from 10 to -10.	N / A
N.FL.06.09 Add, subtract, multiply, and divide integers between -10 and 10; use number line and strip models for addition and subtraction.	N / A
N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently.	<p>SE: Bits and Pieces II: Investigation 2-Adding and Subtracting Fractions: 19-21, 25-26; Investigation 3-Multiplying With Fractions: 35-44, 47-53; Investigation 4-Dividing With Fractions: 49-62; Bits and Pieces III: Investigation 1-Decimals—More or Less!: 8-11, 13, 15; Investigation 2-Decimal Times: 24-32, 38-40, 43-44</p> <p>TE: Bits and Pieces II: 41-46, 55-56, 60-80, 85-88, 92-118 Bits and Pieces III: 21-28, 33-34, 47-59, 65-74, 79-82</p> <p>TR: Bits and Pieces II: Transparencies 2.2, 3.2-3.4, 4.1, 4.4; Labsheets 2.2, 3.1; Notebook Check; Self-Assessment; Spanish Assessment Resources Bits and Pieces III: Transparencies 1.2, 1.3, 2.3, 2.4, 3.2, 3.3; Labsheets 2.4; Notebook Check; Self-Assessment; Spanish Assessment Resources</p> <p>TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: ama-4254, ame-4227, ame-4316, ame-4412, ama-4454, ama-6154, ame-6254, ama-6354, ame-6329; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM</p>
Find equivalent ratios	
N.ME.06.11 Find equivalent ratios by scaling up or scaling down.	<p>SE: Bits and Pieces I: Investigation 2-Sharing and Comparing With Fractions: 21-23, 28, 32</p> <p>TR: Transparencies 2.2A, 2.2B; Labsheets 2.2; Notebook Check; Self-Assessment; Spanish Assessment Resources</p>

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	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: ame-2208; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
Solve decimal, percentage and rational number problems	
N.FL.06.12 Calculate part of a number given the percentage and the number.	SE: Bits and Pieces I: 62, 67; Bits and Pieces III: 67, 69
	TE: Bits and Pieces I: 133, 135; Bits and Pieces III: 97-98
	TR: Bits and Pieces I: Notebook Check; Self-Assessment; Spanish Assessment Resources Bits and Pieces III: Notebook Check; Self-Assessment; Spanish Assessment Resources
	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: ama-6554; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
N.FL.06.13 Solve word problems involving percentages in such contexts as sales taxes and tips, and involving positive rational numbers.	SE: Bits and Pieces III: Investigation 4-Using Percents: 50-61; Investigation 5-More About Percents: 62-73; Unit Project: 74-75; Looking Back and Looking Ahead: 76-78
	TE: Bits and Pieces III: 83-92, 97-99, 100-117
	TR: Transparencies 4.1, 4.1A, 5.3; Labsheets 4.1, 4.2A, 4.2B, 5.3; Notebook Check; Self-Assessment; Spanish Assessment Resources
	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: ama-6454, ame-6415, ama-6554, ame-6521, amj-6051; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
N.FL.06.14 For applied situations, estimate the answers to calculations involving operations with rational numbers.	SE: Bits and Pieces III: Investigation 1-Decimals—More or Less!: 5-7, 13; 29, 33
	TE: Bits and Pieces III: 15-20, 33, 57, 59
	TR: Transparencies 1.1; Notebook Check; Self-Assessment; Spanish Assessment Resources

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MICHIGAN MATHEMATIC GRADE LEVEL CONTENT EXPECTATIONS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: ame-6137; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
N.FL.06.15 Solve applied problems that use the four operations with appropriate decimal numbers.	SE: Bits and Pieces III: Investigation 1- Decimals—More or Less!: 8-9, 14, 16-17, 19; Investigation 2-Decimal Times: 21-23, 28-29, 31-32, 34; Investigation 3-The Decimal Divide: 36-37, 43, 46-48 TE: Bits and Pieces III: 21-24, 33-35, 37-42, 57-59, 62-64, 79-81 TR: Transparencies 1.2, 2.1; Labsheets ; Notebook Check; Self-Assessment; Spanish Assessment Resources TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: ame-6241; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
Use exponents	
N.ME.06.16 Understand and use integer exponents, excluding powers of negative numbers; express numbers in scientific notation.	N / A
Understand rational numbers and their location on the number line	
N.ME.06.17 Locate negative rational numbers (including integers) on the number line; know that numbers and their negatives add to 0, and are on opposite sides and at equal distance from 0 on a number line.	N / A
N.ME.06.18 Understand that rational numbers are quotients of integers (non-zero denominators), e.g., a rational number is either a fraction or a negative fraction.	N / A
N.ME.06.19 Understand that 0 is an integer that is neither negative nor positive.	N / A
N.ME.06.20 Know that the absolute value of a number is the value of the number, ignoring the sign, or is the distance of the number from 0.	N / A

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MICHIGAN MATHEMATIC GRADE LEVEL CONTENT EXPECTATIONS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Calculate rates	
A.PA.06.01 Solve applied problems involving rates including speed, e.g., if a car is going 50 mph, how far will it go in 3 ½ hours?	N / A
Understand the coordinate plane	
A.RP.06.02 Plot ordered pairs of integers and use ordered pairs of integers to identify points in all four quadrants of the coordinate plane.	N / A
Use variables, write expressions and equations, and combine like terms	
A.FO.06.03 Use letters, with units, to represent quantities in a variety of contexts, e.g., y lbs., k minutes, x cookies.	N / A
A.FO.06.04 Distinguish between an algebraic expression and an equation.	N / A
A.FO.06.05 Use standard conventions for writing algebraic expressions, e.g., $2x + 1$ means "two times x, plus 1" and $2(x + 1)$ means "two times the quantity (x + 1)."	N / A
A.FO.06.06 Represent information given in words using algebraic expressions and equations.	N / A
A.FO.06.07 Simplify expressions of the first degree by combining like terms, and evaluate using specific values.	N / A
Represent linear functions using tables, equations, and graphs	
A.RP.06.08 Understand that relationships between quantities can be suggested by graphs and tables.	N / A
A.PA.06.09 Graph and write equations for linear functions of the form $y = mx$, and solve related problems, e.g., given n chairs, the "leg function" is $f(n) = 4n$; if you have 5 chairs, how many legs?; if you have 12 legs, how many chairs?	N / A

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A.RP.06.10 Represent simple relationships between quantities, using verbal descriptions, formulas or equations, tables, and graphs, e.g., perimeter-side relationship for a square, distance-time graphs, and conversions such as feet to inches.	N / A
Solve equations	
A.FO.06.11 Relate simple linear equations with integer coefficients to particular contexts, and solve, e.g., $3x = 8$ or $x + 5 = 10$.	N / A
A.FO.06.12 Understand that adding or subtracting the same number to both sides of an equation creates a new equation that has the same solution.	N / A
A.FO.06.13 Understand that multiplying or dividing both sides of an equation by the same non-zero number creates a new equation that has the same solutions.	N / A
A.FO.06.14 Solve equations of the form $ax + b = c$, e.g., $3x + 8 = 15$ by hand for positive integer coefficients less than 20, using calculators otherwise, and interpret the results.	N / A
MEASUREMENT	
Convert within measurement systems	
M.UN.06.01 Convert between basic units of measurement within a single measurement system, e.g., square inches to square feet.	N / A
Find volume and surface area	
M.PS.06.02 Draw patterns (of faces) for a cube and rectangular prism that, when cut, will cover the solid exactly (nets).	N / A
M.TE.06.03 Compute the volume and surface area of cubes and rectangular prisms given the lengths of their sides using formulas.	N / A
Understand and apply basic properties	
G.GS.06.01 Understand and apply basic properties of lines, angles, and triangles, including:	N / A

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• triangle inequality	
• relationships of vertical angles, complementary angles, supplementary angles	
• congruence of corresponding and alternate interior angles when parallel lines are cut by a transversal, and that such congruencies imply parallel lines	SE: Shapes and Designs Investigation 2-Polygons and Angles: 38-39, 45, 46; 67
	TE: Shapes and Designs: 53-56, 58, 80
	TR: Transparencies 2.5A, 2.5B; Labsheets 2.5; Notebook Check; Self-Assessment; Spanish Assessment Resources
	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
• locate interior and exterior angles of any triangle, and use the property that an exterior	
• angle of a triangle is equal to the sum of the remote (opposite) interior angles	
• know that the sum of the exterior angles of a convex polygon is 360°.	SE: Shapes and Designs Investigation 3- Polygon Properties and Tiling: 60-61, 64-65
	TE: Shapes and Designs: 75-79
	TR: Notebook Check; Self-Assessment; Spanish Assessment Resources
	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
Understand the concept of congruence and basic transformations	
G.GS.06.02 Understand that for polygons, congruence means corresponding sides and angles have equal measures.	N / A
G.TR.06.03 Understand the basic rigid motions in the plane (reflections, rotations, translations), relate these to congruence, and apply them to solve problems.	N / A
G.TR.06.04 Understand and use simple compositions of basic rigid transformations, e.g., a translation followed by a reflection.	N / A

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Construct geometric shapes	
G.SR.06.05 Use paper folding to perform basic geometric constructions of perpendicular lines, midpoints of line segments and angle bisectors; justify informally.	N / A
DATA AND PROBABILITY	
Understand the concept of probability and solve problems	
D.PR.06.01 Express probabilities as fractions, decimals or percentages between 0 and 1; know that 0 probability means an event will not occur and that probability 1 means an event will occur.	SE: How Likely Is It?: Investigation 2- Experimental and Theoretical Probability: 22-38; Investigation 3-Making Decisions With Probability: 39-54; Investigation 4-Probability, Genetics, and Games: 55-69; Looking Back and Looking Ahead: 70-71
	TE: How Likely Is It?: 37-57, 59-74, 76-89, 90-91
	TR: Transparencies 2.3, 3.1A-C, 3.2, 4.1, 4.2, 4.3; Labsheets 3.1, 3.2, 4.3; Notebook Check; Self-Assessment; Spanish Assessment Resources
	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: ama-7254, ama-7354, ame-7305, ame-7412, ama-7454, amj-7051; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM
D.PR.06.02 Compute probabilities of events from simple experiments with equally likely outcomes, e.g., tossing dice, flipping coins, spinning spinners, by listing all possibilities and finding the fraction that meets given conditions.	SE: How Likely Is It? Investigation 1-A First Look At Chance: 5-20, Investigation 2- Experimental and Theoretical Probability: 24-26, 31
	TE: How Likely Is It?: 15-35, 45-48, 55
	TR: Transparencies 1.1A, 1.1B, 1.4; Labsheets 1.1; Notebook Check; Self-Assessment; Spanish Assessment Resources
	TECH: Calculators; Student Activity CD-ROM; PHSchool.com; Web Code: ame-7108; Lesson Lab Online Courses (PHSchool.com/cmp2); Exam View® CD-ROM; Teacher Express™ CD-ROM