

Glencoe Math: Impact Course 1 ©2004
 Correlated to:
Michigan Grade Level Content Expectations
(Grade 6)

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
NUMBER AND OPERATIONS	
Multiply and divide fractions	
N.MR.06.01 Understand division of fractions as the inverse of multiplication.	SE/TG 182-188, 210-212, 440, 504-505, 572 TR Assessment Resources Math Skills Maintenance Workbook: 3.2, 3.3, 7.2, 8.3, 9.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
N.FL.06.02 Given an applied situation involving dividing fractions, write a mathematical statement to represent the situation.	SE/TG 22, 182-188 TR Assessment Resources Math Skills Maintenance Workbook: 1.2, 3.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
N.MR.06.03 Solve for the unknown in equations.	SE/TG 560-563, 570, 572-583, 586-587 TR Assessment Resources Math Skills Maintenance Workbook: 9.1, 9.2, 9.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

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N.FL.06.04 Multiply and divide any two fractions, including mixed numbers, fluently.	SE/TG 98, 108, 161-163, 172-184, 185-188, 201-203 TR Assessment Resources Math Skills Maintenance Workbook: 2.2, 3..1, 3.2, 3.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Represent rational numbers as fractions or decimals.	
N.ME.06.05 Order rational numbers and place them on the number line.	SE/TG 96, 102-103, 120-126, 128, 143, 144, 145-147, 148, 488 TR Assessment Resources Math Skills Maintenance Workbook: 2.2, 2.3, 2.4, 2.5, 8.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
N.ME.06.06 Represent rational numbers as fractions or terminating decimals when possible, and translate between these representations.	SE/TG 128-136, 488 TR Assessment Resources Math Skills Maintenance Workbook: 2.4, 8.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

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N.ME.06.07 Understand that a fraction or a negative fraction is a quotient of two integers.	SE/TG 75, 113, 142-147, 163, 488 TR Assessment Resources Math Skills Maintenance Workbook: 2.3, 2.5, 3.1, 8.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
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.	SE/TG 142-147, 161-163, 412, 501, 504, 572 TR Assessment Resources Math Skills Maintenance Workbook: 2.5, 3.1, 7.1, 8.3, 9.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
N.FL.06.09 Add, subtract, multiply, and divide integers between -10 and 10; use number line and strip models for addition and subtraction.	SE/TG 96, 128, 142-147, 161-163, 183, 412, 501, 504, 572 TR Assessment Resources Math Skills Maintenance Workbook: 2.2, 2.4, 2.5, 3.1, 3.2, 7.1, 8.3, 9.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

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N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently.	SE/TG 161-163, 172-175, 196, 198-200, 412, 488, 501 TR Assessment Resources Math Skills Maintenance Workbook: 3.1, 3.2, 3.3, 7.1, 8.2, 8.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Find equivalent ratios.	
N.ME.06.11 Find equivalent ratios by scaling up or scaling down.	SE/TG 97, 414-420, 439-442, 602-655 TR Assessment Resources Math Skills Maintenance Workbook: 2.2, 7.1, 7.2, 10.1, 10.2, 10.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker 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/TG 249-251, 253-259, 261-264, 265-267, 270-275 TR Assessment Resources Math Skills Maintenance Workbook: 4.2, 4.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

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N.FL.0.13 Solve word problems involving percentages in such contexts as sales taxes and tips, and involving positive rational numbers.	SE/TG 251, 253-259, 261-264, 265, 267 TR Assessment Resources Math Skills Maintenance Workbook: 4.2, 4.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
N.FL.06.14 For applied situations, estimate the answers to calculations involving operations with rational numbers.	SE/TG 104-111, 128-131, 161-163, 183-185, 210-212, 228, 246, 484-485, 487, 504, 572 TR Assessment Resources Math Skills Maintenance Workbook: 2.2, 2.4, 3.1, 3.2, 3.3, 4.1, 8.2, 8.3, 9.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
N.FL.06.15 Solve applied problems that use the four operations with appropriate decimal numbers.	SE/TG 75, 113-117, 120-126, 128-136, 154-170, 198-200, 207-212, 488 TR Assessment Resources Math Skills Maintenance Workbook: 2.3, 2.4, 3.1, 3.3, 8.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Use exponents.	

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N.ME.06.16 Understand and use integer exponents, excluding powers of negative numbers; express numbers in scientific notation.	SE/TG 81, 420, 425, 502 TR Assessment Resources Math Skills Maintenance Workbook: 2.1, 7.1, 8.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
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.	SE/TG 75, 96, 128, 143, 144, 146, 363, 365, 402 TR Assessment Resources Math Skills Maintenance Workbook: 2.2, 2.5, 3.2, 8.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
N.ME.06.18 Understand that rational numbers are quotients of integers (non-zero denominators).	SE/TG 102, 142-147, 183, 488 TR Assessment Resources Math Skills Maintenance Workbook: 2.2, 2.5, 3.2, 8.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

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N.ME.06.19 Understand that 0 is an integer that is neither negative nor positive.	SE/TG 142-147, 569 TR Assessment Resources Math Skills Maintenance Workbook: 2.5 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
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.	SE/TG 143-144, 569 TR Assessment Resources Math Skills Maintenance Workbook: 2.5 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
ALGEBRA	
Calculate rates.	
A.PA.06.01 Solve applied problems involving rates including speed.	SE/TG 394-395 TR Assessment Resources Math Skills Maintenance Workbook: 6.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Understand the coordinate plane.	

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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.	SE/TG 302-305, 363, 365, 402, 502 TR Assessment Resources Math Skills Maintenance Workbook: 5.2, 6.2, 8.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
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.	SE/TG 248-259 TR Assessment Resources Math Skills Maintenance Workbook: 4.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
A.FO.06.04 Distinguish between an algebraic expression and an expression.	SE/TG 560-562, 570, 572-583, 586-587 TR Assessment Resources Math Skills Maintenance Workbook: 9.1, 9.2, 9.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

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A.FO.06.05 Use standard conventions for writing algebraic expressions.	SE/TG 560-562, 570, 572-583, 586-587 TR Assessment Resources Math Skills Maintenance Workbook: 9.1, 9.2, 9.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
A.FO.06.06 Represent information given in words using algebraic expressions and equations.	SE/TG 560-562, 570, 572-583, 586-587 TR Assessment Resources Math Skills Maintenance Workbook: 9.1, 9.2, 9.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
A.FO.06.07 Simplify expressions of the first degree by combining like terms, and evaluate using specific values.	SE/TG 6, 100, 143-144, 158, 410 TR Assessment Resources Math Skills Maintenance Workbook: 1.1, 2.2, 2.5, 3.1, 7.1 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Represent linear functions using tables, equations, and graphs.	

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A.RP.06.08 Understand that relationships between quantities can be suggested by graphs and tables.	SE/TG 278-282, 316-334 TR Assessment Resources Math Skills Maintenance Workbook: 5.1, 5.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
A.PA.06.09 Graph and write equations for linear functions of the form $y=mx$, and solve related problems.	SE/TG 15-18, 24, 306-310, 560-562, 572-576 TR Assessment Resources Math Skills Maintenance Workbook: 1.2, 5.2, 9.1, 9.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
A.RP.06.10 Represent simple relationships between quantities, e.g., perimeter-side relationship for a square, distance-time graphs, and conversions such as feet to inches; use verbal descriptions, formulas or equations, tables, and graphs.	SE/TG 13, 108, 117-119, 209, 213, 426, 482-486, 490 TR Assessment Resources Math Skills Maintenance Workbook: 1.1, 2.2, 2.3, 3.3, 7.1, 8.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Solve equations.	

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A.FO.06.11 Relate simple linear equations with integer coefficients to particular contexts, and solve.	SE/TG 142-147, 560-562, 572-576 TR Assessment Resources Math Skills Maintenance Workbook: 2.5, 9.1, 9.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
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.	SE/TG 558-559, 560-562, 565, 570, 572-583, 586-587 TR Assessment Resources Math Skills Maintenance Workbook: 9.1, 9.2, 9.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
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.	SE/TG 558-559, 560-562, 565, 570, 572-583, 586-587 TR Assessment Resources Math Skills Maintenance Workbook: 9.1, 9.2, 9.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

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A.FO.06.14 Solve equations of the form $ax + b = c$ by hand for positive integer coefficients less than 20, using calculators otherwise, and interpret the results.	SE/TG 142-147, 558-559, 560-562, 563, 565, 570, 572-583, 586-587 TR Assessment Resources Math Skills Maintenance Workbook: 2.5, 9.1, 9.2, 9.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
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.	SE/TG 108, 117-119, 209, 213, 490 TR Assessment Resources Math Skills Maintenance Workbook: 2.2, 2.3, 3.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
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).	SE/TG 58-60, 534, 590 TR Assessment Resources Math Skills Maintenance Workbook: 1.4, 8.4, 9.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

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M.TE.06.03 Compute the volume of surface area of cubes and rectangular prisms given the lengths of their sides using formulas.	SE/TG 58-60, 534, 590 TR Assessment Resources Math Skills Maintenance Workbook: 1.4, 8.4, 9.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
GEOMETRY	
Understand and apply basic properties.	
G.GS.06.01 Understand and apply basic properties of lines, angles, and triangles including: <ul style="list-style-type: none"> • 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 • 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 degrees 	SE/TG 42-46, 47-49, 50, 52-57, 68, 334, 466-481, 519, 532 TR Assessment Resources Math Skills Maintenance Workbook: 1.4, 5.3, 8.1, 8.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker 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.	SE/TG 42-46, 50-54, 473-478, 479 TR Assessment Resources Math Skills Maintenance Workbook: 1.4, 8.1 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

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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.	SE/TG 41, 50-51, 302, 466, 475, 502 TR Assessment Resources Math Skills Maintenance Workbook: 1.4, 5.2, 8.1, 8.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
G.TR.06.04 Understand and use simple compositions of basic rigid transformations.	SE/TG 41, 50-51, 466, 475 TR Assessment Resources Math Skills Maintenance Workbook: 1.4, 8.1 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
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.	SE/TG 42, 64-65, 469, 474, 479, 486-489, 523-524, 532 TR Assessment Resources Math Skills Maintenance Workbook: 1.4, 8.1, 8.2, 8.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
DATA AND PROBABILITY	
Understand the concept of probability and solve problems.	

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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/TG 605-607, 608-612 TR Assessment Resources Math Skills Maintenance Workbook: 10.1 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
D.PR.06.02 Compute probabilities of events from simple experiments with equally likely outcomes by listing all possibilities and finding the fraction that meets given conditions.	SE/TG 605, 606-607, 616, 638, 640-645, 652 TR Assessment Resources Math Skills Maintenance Workbook: 10.1, 10.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM