

Glencoe Impact Mathematics Course 2 © 2004

Correlated to:

**Michigan Grade Level Content Expectations
(Grade 7)**

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
NUMBER AND OPERATIONS	
Understand derived quantities.	
N.ME.07.01 Understand derived quantities such as density, velocity, and weighted averages.	SE/TG 243-247, 329, 562-582, 595, 703, 711-713 TR Assessment Resources Math Skills Maintenance Workbook: 4.2, 5.2, 8.3, 8.4, 10.3, 10.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
N.FL.07.02 Solve problems involving derived quantities.	SE/TG 243-247, 562-582, 627 TR Assessment Resources Math Skills Maintenance Workbook: 4.2, 8.3, 9.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Understand and solve problems involving rates, ratios, and proportions.	
N.FL.07.03 Calculate rates of change including speed.	SE/TG 179, 300, 305-308, 321 TR Assessment Resources Math Skills Maintenance Workbook: 3.3, 5.1, 5.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

Glencoe Math: Impact Course 2 © 2004
 Correlated to:
Michigan Grade Level Content Expectations
(Grade 7)

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
N.MR.07.04 Convert ratio quantities between different systems of units such as feet per second to miles per hour.	SE/TG 300-305, 321, 329 TR Assessment Resources Math Skills Maintenance Workbook: 5.1, 5.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
N.FL.07.05 Solve simple proportion problems using such methods as unit rate, scaling, finding equivalent fractions, and solving the proportion equation $a/b = c/d$; know how to see patterns about proportional situations in tables.	SE/TG 457, 485-488, 543-545, 562-582 TR Assessment Resources Math Skills Maintenance Workbook: 7.1, 7.3, 8.2, 8.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Recognize irrational numbers.	
N.MR.07.06 Understand the concept of square root and cube root, and estimate using calculators.	SE/TG 42, 81, 129, 178, 200-202 TE T271 TR Assessment Resources Math Skills Maintenance Workbook: 1.2, 2.1, 2.4, 3.3, 3.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Compute with rational numbers.	

Glencoe Math: Impact Course 2 © 2004
 Correlated to:
Michigan Grade Level Content Expectations
(Grade 7)

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
N.FL.07.07 Solve problems involving operations with integers.	SE/TG 222-238, 239, 244 TR Assessment Resources Math Skills Maintenance Workbook: 4.1, 4.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
N.FL.07.08 Add, subtract, multiply and divide negative rational numbers.	SE/TG 222-240, 243-247, 248-252 TR Assessment Resources Math Skills Maintenance Workbook: 4.1, 4.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
N.FL.07.09 Estimate results of computations with rational numbers.	SE/TG 222-240, 243-247, 248-250 TR Assessment Resources Math Skills Maintenance Workbook: 4.1, 4.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
ALGEBRA	
Understand and apply directly proportional relationships and relate to linear relationships.	

Glencoe Math: Impact Course 2 © 2004
 Correlated to:
Michigan Grade Level Content Expectations
(Grade 7)

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
A.PA.07.01 Recognize when information given in a table, graph, or formula suggests a proportional or linear relationship.	SE/TG 303, 309-311, 344-360 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.RP.07.02 Represent directly proportional and linear relationships using verbal descriptions, tables, graphs, and formulas, and translate among these representations.	SE/TG 303, 309-311, 344-360, 362-377 TR Assessment Resources Math Skills Maintenance Workbook: 5.1, 5.3, 5.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
A.PA.07.03 Given a directly proportional or linear situation, graph and interpret the slope and intercept(s) in terms of the original situation; evaluate $y = kx$ for specific x values, given k .	SE/TG 321-343, 351, 378, 540, 600-601, 605, 675, 714-717 TR Assessment Resources Math Skills Maintenance Workbook: 5.2, 5.3, 8.2, 9.1, 10.1, 10.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

Glencoe Math: Impact Course 2 © 2004
 Correlated to:
Michigan Grade Level Content Expectations
(Grade 7)

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
A.PA.07.04 For directly proportional or linear situations, solve applied problems using graphs and equations.	SE/TG 303, 309-311, 344-360, 362-377 TR Assessment Resources Math Skills Maintenance Workbook: 5.1, 5.3, 5.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
A.PA.07.05 Understand and use directly proportional relationships of the form $y = mx$, and distinguish from linear relationships of the form $y = mx + b$, b non-zero; understand that in a directly proportional relationship between two quantities one quantity is a constant multiple of the other quantity.	SE/TG 309-311, 362-377 TR Assessment Resources Math Skills Maintenance Workbook: 5.1, 5.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Understand and represent linear functions.	
A.PA.07.06 Calculate the slope from the graph of a linear function as the ratio of “rise/run” for a pair of points on the graph, and express the answer as a fraction and a decimal; understand that linear functions have slope that is a constant rate of change.	SE/TG 300-319, 321-343, 344-360 TR Assessment Resources Math Skills Maintenance Workbook: 5.1, 5.2, 5.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

Glencoe Math: Impact Course 2 © 2004
 Correlated to:
Michigan Grade Level Content Expectations
(Grade 7)

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
A.PA.07.07 Represent linear functions in the form $y = x + b$, $y = mx$, and $y = mx + b$, and graph, interpreting slope and y-intercept.	SE/TG 321-343 TR Assessment Resources Math Skills Maintenance Workbook: 5.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
A.FO.07.08 Know that the solution to a linear equation corresponds to the point at which its graph crosses the x-axis.	SE/TG 255, 344-361, 437-439 TR Assessment Resources Math Skills Maintenance Workbook: 4.3, 5.3, 6.5 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Understand and solve problems about inversely proportional relationships.	
F.PA.07.09 Recognize inversely proportional relationships in contextual situations; know that quantities are inversely proportional if their product is constant, and that an inversely proportional relationship is of the form $y = kx$ where k is some non-zero number.	SE/TG 309-311, 378, 540-542, 627-628 TR Assessment Resources Math Skills Maintenance Workbook: 5.1, 8.2, 9.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

Glencoe Math: Impact Course 2 © 2004
 Correlated to:
Michigan Grade Level Content Expectations
(Grade 7)

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
A.RP.07.10 Know that the graph of $y = k/x$ is not a line; know its shape; and know that it crosses neither the x nor the y-axis.	SE/TG 255, 333, 378 TR Assessment Resources Math Skills Maintenance Workbook: 4.3, 5.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Apply basic properties of real numbers in algebraic contexts.	
A.PA.07.11 Understand and use basic properties of real numbers; additive and multiplicative identities, additive and multiplicative inverses, commutativity, associativity, and the distributive property of multiplication over addition.	SE/TG 52-73, 243-247, 627 TE T32, T148 TR Assessment Resources Math Skills Maintenance Workbook: 1.3, 4.2, 9.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Combine algebraic expressions and solve equations.	
A.FO.07.12 Add, subtract, and multiply simple algebraic expressions of the first degree, and justify using properties of real numbers.	SE/TG 6-8, 12-18, 19-21, 32-51, 52-73 TR Assessment Resources Math Skills Maintenance Workbook: 1.1, 1.2, 1.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

Glencoe Math: Impact Course 2 © 2004
 Correlated to:
Michigan Grade Level Content Expectations
(Grade 7)

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
A.FO.07.13 From applied situations, generate and solve linear equations of the form $ax + b = c$ and $ax + b = cx + d$, and interpret solutions.	SE/TG 20-21, 382-421, 545-548 TR Assessment Resources Math Skills Maintenance Workbook: 1.1, 6.1, 6.2, 6.3, 6.4, 8.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
GEOMETRY	
Draw and construct geometric objects.	
G.SR.07.01 Use a ruler and other tools to draw squares, triangles and parallelograms with specified dimensions.	SE/TG 91-97, 122, 142, 271-278, 387, 418, 458, 476, 472, 473-475, 482-484, 487, 492, 541, 549-551, 553 TR Assessment Resources Math Skills Maintenance Workbook: 2.2, 2.3, 4.4, 6.1, 6.3, 7.1, 7.2, 7.3, 8.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
G.SR.07.02 Use compass and straightedge to perform basic geometric constructions: the perpendicular bisector of a segment, an equilateral triangle, and the bisector of an angle; understand informal justifications.	SE/TG 187, 467, 471, 501 TE T77 TR Assessment Resources Math Skills Maintenance Workbook: 3.3, 7.1, 7.2, 7.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Understand the concept of similar polygons, and solve related problems.	

Glencoe Math: Impact Course 2 © 2004
 Correlated to:
Michigan Grade Level Content Expectations
(Grade 7)

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
G.TR.07.03 Understand that in similar polygons, corresponding angles are congruent and the ratios of corresponding sides are equal; understand the concepts of similar figures and scale factor.	SE/TG 451-453, 456-460, 461-463, 469, 471-481, 482-488 TR Assessment Resources Math Skills Maintenance Workbook: 7.1, 7.2, 7.3 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
G.TR.07.04 Solve problems about similar figures and scale drawings.	SE/TG 482-496, 497-513 TR Assessment Resources Math Skills Maintenance Workbook: 7.3, 7.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
G.TR.07.05 Show that two triangles are similar using the criteria: corresponding angles are congruent (AAA similarity); the ratios of two pairs of corresponding sides are equal and the included angles are congruent (SAS similarity); ratios of all pairs of corresponding sides are equal (SSS similarity); use these criteria to solve problems and to justify arguments.	SE/TG 451-453, 456-460, 472, 473-475, 541, 549-551, 553 TR Assessment Resources Math Skills Maintenance Workbook: 7.1, 7.2, 8.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM

Glencoe Math: Impact Course 2 © 2004
 Correlated to:
Michigan Grade Level Content Expectations
(Grade 7)

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
G.TR.07.06 Understand and use the fact that when two triangles are similar with scale factor of r , their areas are related by a factor of r squared.	SE/TG 458, 473-475, 541, 549-551, 553 TR Assessment Resources Math Skills Maintenance Workbook: 7.1, 7.2, 8.2 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
DATA AND PROBABILITY	
Represent data and interpret.	
D.RE.07.01 Represent and interpret data using circle graphs, stem and leaf plots, histograms, and box-and-whisker plots, and select appropriate representation to address specific questions.	SE/TG 675, 685, 699, 706, 709-717, 724 TR Assessment Resources Math Skills Maintenance Workbook: 10.1, 10.2, 10.3, 10.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
D.AN.07.02 Create and interpret scatter plots and find line of best fit and use an estimated line or best fit to answer questions about the data.	SE/TG 254-267, 600-601, 605, 675, 714-717 TR Assessment Resources Math Skills Maintenance Workbook: 4.3, 9.1, 10.1, 10.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
Compute statistics about datasets.	

Glencoe Math: Impact Course 2 © 2004
 Correlated to:
Michigan Grade Level Content Expectations
(Grade 7)

Michigan Grade Level Content Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
D.AN.07.03 Calculate and interpret relative frequencies and cumulative frequencies for given data sets.	SE/TG 692-708, 709-723 TR Assessment Resources Math Skills Maintenance Workbook: 10.3, 10.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM
D.AN.07.04 Find and interpret the median, quartiles, and interquartile range of a given set of data.	SE/TG 676-691, 710-713 TR Assessment Resources Math Skills Maintenance Workbook: 10.2, 10.4 Technology www.impactmath.com Virtual Activities CD-ROM StudentWorks CD-ROM ExamView Pro Testmaker CD-ROM