

## Summary of 2010 Mathematics Standard Changes

| <b>GRADE 8</b>   |  |  |  |
|--|--|--|--|
| <b>Removed</b>   | <b>Moved to a Different Grade Level</b>  | <b>Moved from another Grade Level</b>  | <b>New Standards</b>   |
| M08-S2C1-04 (2008) Determine whether information is represented effectively and appropriately given a graph or a set of data by identifying sources of bias and compare and contrast the effectiveness of different representations of data. | M08-S1C1-01 (2008) Compare and order real numbers including very large and small integers, and decimals and fractions close to zero.<br>MOVED to 6.NS.7 (2010) | MHS-S4C3-07 (2008) MOVED TO 8.EE.8 (2010)<br>Analyze and solve pairs of simultaneous linear equations.<br>a. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.<br>b. Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. <i>For example, <math>3x + 2y = 5</math> and <math>3x + 2y = 6</math> have no solution because <math>3x + 2y</math> cannot simultaneously be 5 and 6.</i><br>c. Solve real-world and mathematical problems leading to two linear equations in two variables. <i>For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.</i> | 8.F.2 (2010) Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). <i>For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change.</i> |

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| M08-S2C3-01 (2008) Represent, analyze, and solve counting problems with or without ordering and repetitions.             | M08-S1C1-04 (2008) Model and solve problems involving absolute values.<br>MOVED to 7.NS.1c (2010)  | M06-S4C2-01 (2008) MOVED TO 8.G.2 (2010)<br>Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.  |                      |
| M08-S2C3-02 (2008) Solve counting problems and represent counting principles algebraically including factorial notation. | M08-S1C2-01 (2008) Solve problems with factors, multiples, divisibility or remainders, prime numbers, and composite numbers.<br>MOVED to 6.NS.4 (2010)   | MHS-S4C2-03 and MHS-S4C2-04 (2008) MOVED TO 8.G.3 (2010)<br>Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.  |                      |
| M08-S2C4-01 (2008) Use directed graphs to solve problems.  | M08-S1C2-02 (2008) Describe the effect of multiplying and dividing a rational number by <ul style="list-style-type: none"> <li>• a number less than zero,</li> <li>• a number between zero and one,</li> <li>• one, and</li> <li>• a number greater than one.</li> </ul> MOVED to 5.NF.5b (2010) | MHS-S4C2-03 and MHS-S4C2-04 (2008) MOVED TO 8.G.4 (2010)<br>Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them. |                      |
| M08-S4C2-03 (2008) Identify lines of symmetry in plane figures or classify types of symmetries of 2-dimensional figures. | M08-S1C2-03 (2008) Solve problems involving percent increase, percent decrease, and simple interest rates.<br>MOVED to 7.RP.3 (2010)   |   |                      |

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| M08-S4C4-01 (2008) Solve problems involving conversions within the same measurement system.  | M08-S2C1-03 (2008) Describe how summary statistics relate to the shape of the distribution.<br>MOVED to 7.SP.3 (2010)   |                                       |                      |
| M08-S5C2-10 (2008) Solve logic problems involving multiple variables, conditional statements, conjectures, and negation using words, charts, and pictures. | M08-S2C1-05 (2008) Evaluate the design of an experiment.<br>MOVED to 7.SP.2 (2010)  |                                       |                      |
|  | M08-S2C2-01 (2008) Determine theoretical and experimental conditional probabilities in compound probability experiments.<br>MOVED to 7.SP.8a (2010)   |                                       |                      |
|  | M08-S2C2-02 (2008) Interpret probabilities within a given context and compare the outcome of an experiment to predictions made prior to performing the experiment.<br>MOVED to 7.SP.7b (2010) |                                       |                      |
|  | M08-S2C2-03 (2008) Use all possible outcomes (sample space) to determine the probability of dependent and independent events.<br>MOVED to 7.SP.8b (2010)                                      |                                       |                      |
|  | M08-S3C3-02 (2008) Evaluate an expression containing variables by substituting rational numbers for the variables.<br>MOVED to 6.EE.2c (2010)   |                                       |                      |
|  | M08-S3C3-05 (2008) Graph an inequality on a number line.<br>MOVED to 6.EE.8 (2010)  |                                       |                      |

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|                | M08-S3C4-02 (2008) Solve problems involving simple rates. REDISTRIBUTED to 6.RP.3 a – d and 7.RP.1   |                                       |                      |
|                | M08-S4C1-01 (2008) Identify the attributes of circles: radius, diameter, chords, tangents, secants, inscribed angles, central angles, intercepted arcs, circumference, and area. MOVED to HS.G-C.2 (2010)    |                                       |                      |
|                | M08-S4C1-02 (2008) Predict results of combining, subdividing, and changing shapes of plane figures and solids. MOVED to 7.G.3 (2010)   |                                       |                      |
|                | M08-S4C3-01 (2008) Make and test a conjecture about how to find the midpoint between any two points in the coordinate plane. MOVED to HS.G-GPE.6 (2010)  |                                       |                      |
|                | M08-S5C1-01 (2008) Create an algorithm to solve problems involving indirect measurements, using proportional reasoning, dimensional analysis, and the concepts of density and rate. MOVED to HS.N-Q.1 (2010) |                                       |                      |