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Correlated to
NH, ME, VT, and RI GLE's
Grade 6

NH, ME, VT , RI Local and NECAP Grade Level Expectations	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
NUMBER AND OPERATION	
M(N&O)-6-1 Demonstrates conceptual understanding of rational numbers with respect to ratios using models, explanations, or other representations.	SE/TE Gulliver's Worlds: 280-283, 302-303, 309-311, 312-313, 314 TE From Wholes to Parts: 107, 128 Designing Spaces: 202 Technology www.mathscape1.com
M(N&O)-6-2 Demonstrates understanding of the relative magnitude of numbers by ordering or comparing numbers with whole number bases and whole number exponents, integers, or rational numbers within and across number formats using number lines or equality and inequality symbols.	SE/TE The Language of Numbers: 70-79, 88-91 From Wholes to Parts: 102, 112-114, 118-119, 122, 131, 136, 145, 149, 151 Besides the Point: 216, 242-245, 258, 259, 270-275 Gulliver's Worlds: 304-305, 318 TE The Language of Numbers: 70-71 Besides the Point: 207H, 242-243 Technology www.mathscape1.com
M(N&O)-6-3 Demonstrates conceptual understanding of mathematical operations by describing or illustrating the meaning of a power by representing the relationship between the base (whole number) and the exponent (whole number); and the effect on the magnitude of a whole number when multiplying or dividing it by a whole number, decimal, or fraction; addition and subtraction of positive fractions and integers; and multiplication and division of fractions and decimals.	SE/TE From Wholes to Parts: 102-105, 119-121, 124-125, 127, 130-135, 136-141, 145, 146, 151-155, 159-161 Besides the Point: 210-213, 226-227, 228, 232-234, 236, 238, 256, 257, 263, 264, 265 Gulliver's Worlds: 312, 316, 319 TE From Wholes to Parts: 93H, 106, 117, 128-129 Besides the Point: 207H, 218, 230 Technology www.mathscape1.com

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M(N&O)-6-4 Accurately solves problems involving single or multiple operations on fractions (proper, improper, and mixed) or decimals; and addition or subtraction of integers; percent of a whole; or problems involving greatest common factor or least common multiple.	SE/TE From Wholes to Parts: 112, 122-127, 133, 135, 137-139, 153-155, 158-161 Besides the Point: 220-221, 222-225, 226-227, 246-249, 250, 254-255, 260, 261, 262, 263, 271-272, 273-275 TE From Wholes to Parts: 117 Besides the Point: 207G, 207H, 218, 242-243 Technology www.mathscape1.com
M(N&O)-6-6 Mentally calculates change back from $5.00, $10.00, $20.00, $50.00, and $100.00; multiples a two-digit whole number by a one-digit number whole number, two-digit whole numbers that are multiples of ten, a three-digit whole number that is a number which is a multiple of 10 or 100, respectively; divides 3- and 4-digit multiples of powers of ten by their compatible factors; and determines the part of a whole number using benchmark percents.	SE/TE The Language of Numbers: 70-79, 88-91 From Wholes to Parts: 94-99, 102-105, 142-143, 145, 146 Besides the Point: 210, 235-237, 254, 256, 266-267, 275 Patterns in Numbers and Shapes: 328-329, 356 TE From Wholes to Parts: 117 Besides the Point: 207H, 218, 230-231 Technology www.mathscape1.com
M(N&O)-6-7 Makes estimates in a given situation by identifying when estimation is appropriate, selecting the appropriate method of estimation, determining the level of accuracy needed given the situation, analyzing the effect of the estimation method on the accuracy of results, and evaluating the reasonableness of solutions appropriate to grade level GLEs across content strands.	SE/TE What Does the Data Say? 24-25 From Wholes to Parts: 134, 139, 158, 160 Designing Spaces: 182-183, 201, Besides the Point: 224, 236, 266, 267 Gulliver's Worlds: 280-281, 284-285290-291, 294-295, 304-307, 310, 314 TE From Wholes to Parts: 107, 119, 129 Besides the Point: 218, 219, 230-231 Technology www.mathscape1.com

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M(N&O)-6-8 Applies properties of numbers (odd, even, remainders, divisibility, and prime factorization) and field properties (commutative, associative, identity, distributive, and additive inverses) to solve problems and to simplify computations.	SE/TE What Does the Data Say? 10-11, 38 From Wholes to Parts: 98-99, 143 Patterns in Numbers and Shapes: 329, 334-335, 349, 350, 356, 363, 364 TE What Does the Data Say? 5 From Wholes to Parts: 94, 95, 117, 129 Technology www.mathscape1.com
GEOMETRY AND MEASUREMENT	
M(G&M)-6-1 Use properties or attributes of angles (right, acute, or obtuse) or sides (number of congruent sides, parallelism, or perpendicularity) to identify, describe, classify, or distinguish among different types of triangles (right, acute, obtuse, equiangular, scalene, isosceles, or equilateral) or quadrilaterals (rectangles, squares, rhombi, trapezoids, or parallelograms).	SE/TE From Wholes to Parts: 96-97, 121, 152, 154, 158 Designing Spaces: 176-177, 178-179, 180-181, 182-183, 186-189, 199, 201 Besides the Point: 262 TE Designing Spaces: 184, 185 Technology www.mathscape1.com
M(G&M)-6-3 Use properties or attributes (shape of bases, number of lateral faces, number of bases, number of edges, or number of vertices) to identify, compare, or describe three-dimensional shapes (rectangular prisms, triangular prisms, cylinders, spheres, pyramids, or cones).	SE/TE From Wholes to Parts: 96, 97, 142 Designing Spaces: 166, 167, 168-173, 188-189, 195-197, 203 Gulliver's Worlds: 294-297, 304-305, 314-315, 318, Patterns in Numbers and Shapes: 326-327, 355 TE Designing Spaces: 163G, 163H, 164-165, 185 Gulliver's Worlds: 298-299 Technology www.mathscape1.com

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M(G&M)-6-4 Demonstrates conceptual understanding of congruency by predicting and describing the transformational steps (reflections, translations, and rotations) needed to show congruence (including the degree of rotation) and as the result of composing and decomposing two- and three-dimensional objects using models or explanations; and using line and rotational symmetry to demonstrate congruent parts within a shape.	SE/TE Designing Spaces: 166-167, 168-173, 176-177, 194, 195-197, 198 Gulliver's Worlds: 294-297, 304-305, 314-315, 318 Patterns in Numbers and Shapes: 326-327, 355 TE Designing Spaces: 163G, 163H, 164-165, 185 Gulliver's Worlds: 298-299 Technology www.mathscape1.com
M(G&M)-6-5 Demonstrates conceptual understanding of similarity by describing the proportional effect on the linear dimensions of polygons or circles when scaling up or down while preserving the angles of polygons, or by solving related problems (including applying scales on maps). Describes effects using models for explanations.	SE/TE What Does the Data Say? 30-35, 45-47 From Wholes to Parts: 158 Designing Spaces: 176, 178-181, 182-183, 186-187, 192-193, 201, 202, 205 Besides the Point: 237 Gulliver's Worlds: 284-287, 300-307, 316-319 TE Designing Spaces: 174-175, 189 Technology www.mathscape1.com
M(G&M)-6-6 Demonstrates conceptual understanding of perimeter of polygons, the area of quadrilaterals or triangles, and the volume of rectangular prisms by using models, formulas, or by solving problems; and demonstrates understanding of the relationships of circle measures (radius to diameter and diameter to circumference) by solving related problems. Expresses all measures using appropriate units.	SE/TE From Wholes to Parts: 97, 142 Designing Spaces: 182-183, 188-189, 201, 203 Gulliver's Worlds: 294-297, 304-305, 314-315, 318 TE Designing Spaces: 185 Gulliver's Worlds: 298-299 Technology www.mathscape1.com

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M(G&M)-6-7 Measures and uses units of measures appropriately and consistently, and makes conversions with systems when solving problems across the content strands.	SE/TE Gulliver's Worlds: 280-283, 290-293, 300-301, 308-309, 311, 313, 314 TE From Wholes to Parts: 106, 129 Gulliver's Worlds: 278-279, 288-289 Technology www.mathscape1.com
FUNCTIONS AND ALGEBRA	
M(F&A)-6-1 Identifies and extends to specific cases a variety of patterns (linear and nonlinear represented in models, tables, sequences, graphs, or in problem situations; or writes a rule in worlds or symbols for finding specific cases of a linear relationship; or writes a rule in words or symbols for finding specific cases of a nonlinear relationship; and writes an expression or equation using words or symbols to express the generalization of a linear relationship.	SE/TE Patterns in Numbers and Shapes: 324-325, 326-329, 330-337, 342-345, 346-353, 355, 356, 357-359, 361, 362, 363-365 TE Patterns in Numbers and Shapes: 321G, 321H, 322-323, 330-331, 338-339, 346-347 Technology www.mathscape1.com
M(F&A)-6-2 Demonstrates conceptual understanding of linear relationships as a constant rate of change by constructing or interpreting graphs of real occurrences and describing the slope of linear relationships (faster, slower, greater, or smaller) in a variety of problem situations; and describes how change in the value of one variable relates to change in the value of a second variable in problem situations with constant rates of change.	SE/TE Patterns in Numbers and Shapes: 324-325, 326-329, 330-337, 342-345, 346-353, 355, 356, 357-359, 361, 362, 363-365 TE Patterns in Numbers and Shapes: 321G, 321H, 322-323, 330-331, 338-339, 346-347 Technology www.mathscape1.com

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M(F&A)-6-3 Demonstrates conceptual understanding of algebraic expressions by using letters to represent unknown quantities to write linear algebraic expressions involving any of the four operations and consistent with order of operations expected at this grade level; or by evaluating linear algebraic expressions (including those with more than one variable); or by evaluating an expression within an equation.	SE/TE The Language of Numbers: 54-55, 56-57, 72-75, 81, 82, 88, 89 From Wholes to Parts: 102-105, 109, 145, 146 Gulliver's Worlds: 304-305, 318 Patterns in Numbers and Shapes: 326-329, 330-337, 338-345, 355, 356, 357-359, 361, 362 TE The Language of Numbers: 50-51 Patterns in Numbers and Shapes: 321H, 321, 322, 330-331, 338-339, 346-347 Technology www.mathscape1.com
M(F&A)-6-4 Demonstrates conceptual understanding of equality by showing equivalence between two expressions using models or different representations of the expressions (expressions consistent with the parameters of M(F&A)-6-3), solving multi-step linear equations of the form ax+b=c, where a, b, and c are whole numbers with a not equal to 0.	SE/TE The Language of Numbers: 63, 72-73, 88 From Wholes to Parts: 103, 108, 109, 110-115, 145, 148-150 Besides the Point: 213, 215 Patterns in Numbers and Shapes: 334-335, 358 TE From Wholes to Parts: 93G, 94-95, 116-117 Patterns in Numbers and Shapes: 321G Technology www.mathscape1.com
DATA, STATISTICS, AND PROBABILITY	
M(DSP)-6-1 Interprets a given representation (circle, graphs, line graphs, or stem-and leaf plots) to answer questions related to the data, to analyze the data to formulate or justify conclusions, to make predictions, or to solve problems.	SE/TE What Does the Data Say? 22-27, 30-35, 42-44, 45-47 The Language of Numbers: 57, 82 Besides the Point: 265 Gulliver's Worlds: 302-305, 317, 318 Patterns in Numbers and Shapes: 328-329, 342-345, 350-351, 356, 361, 362, 364 TE What Does the Data Say? 21 Patterns in Numbers and Shapes: 322-323 Technology www.mathscape1.com

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M(DSP)-6-2 Analyzes patterns, trends, or distributions in data in a variety of contexts by determining or using measures of central tendency (mean, median, or mode) or dispersion (range) to analyze situations, or to solve problems.	SE/TE What Does the Data Say? 6-11, 35, 36-38 Gulliver's Worlds: 290-291 Patterns in Numbers and Shapes: 326-329, 355, 356 TE What Does the Data Say? 3G, 4, 5 Technology www.mathscape1.com
M(DSP)-6-3 Organizes and displays data using tables, line graphs, or stem-and-leaf plots to answer questions related to the data, to analyze the data, to formulate or justify conclusions, to make predictions, or to solve problems.	SE/TE What Does the Data Say? 6-11, 14-15, 16-17, 22-27, 38, 39, 42-44 Patterns in Numbers and Shapes: 342-343, 361 TE What Does the Data Say? 20-21 Technology www.mathscape1.com
M(DSP)-6-4 Uses counting techniques to solve problems in context involving combinations or simple permutations using a variety of strategies.	SE/TE The Language of Numbers: 54-55, 72-75, 81, 88, 89 From Wholes to Parts: 102-104, 145, 146 Gulliver's Worlds: 304-305, 318 Patterns in Numbers and Shapes: 334 TE The Language of Numbers: 51 From Wholes to Parts: 95 Patterns in Numbers and Shapes: 330-331 Technology www.mathscape1.com
M(DSP)-6-5 For a probability event in which the sample space may or may not contain equally likely outcomes, determines the experimental or theoretical probability of an event in a problem-solving situation; and predicts the theoretical probability of an event and tests the prediction through experiments and simulations; and designs fair games.	SE/TE What Does the Data Say? 29-35, 45-47 TE What Does the Data Say? 3H, 28-29 Technology www.mathscape1.com

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M(DSP)-6-6 In response to a teacher of student generated question or hypotheses decides the most effective method (e.g., survey, observation, experimentation) to collect the data (numerical or categorical) necessary to answer the question; collects, organizes, and appropriately displays the data; analyzes the data to draw conclusions about the question or hypothesis being tests, and when appropriate makes predictions; and asks new questions and makes connects to real world situations.	SE/TE What Does the Data Say? 6-11, 14-15, 16-17, 22-27, 29-35, 36-38, 39, 42-44, 45-47 Patterns in Numbers and Shapes: 326-329, 342-342, 355, 356, 361 Gulliver's Worlds: 290-291 TE What Does the Data Say? 3G, 3H, 4, 5, 20-21, 28-29 Technology www.mathscape1.com