

A Correlation of

SCOTT FORESMAN • ADDISON WESLEY

Mathematics

© 2005

to the

Missouri Mathematics Grade-Level Expectations Version 2.0

Grades K - 5

PEARSON

G/M-269

Introduction

This document demonstrates the high degree of success students will achieve when using **Scott Foresman – Addison Wesley Mathematics, c. 2005**, in meeting the *Missouri Mathematics Grade-Level Expectations Version 2.0, April 2008*. Correlation page references are to the Teacher Edition, which contains facsimile Student Edition pages.

Scott Foresman – Addison Wesley Mathematics was carefully developed to reflect the specific needs of students and teachers at every grade level, while maintaining an overall primary goal: to have math make sense from every perspective. This program is based on scientific research that describes how children learn mathematics well and on classroom-based evidence that validates proven reliability.

● Reaching All Learners

Scott Foresman – Addison Wesley Mathematics addresses the needs of every student through structured instruction that makes concepts easier for students to grasp. Lessons provide step-by-step examples that show students how to think about and solve the problem. Built-in leveled practice in every lesson allows the teacher to customize instruction to match students' abilities. Reaching All Learners, featured in the Teacher Edition, helps teachers meet the diverse needs of the classroom with fun and stimulating activities that are easy to incorporate directly into the lesson plan.

● Test Prep

Scott Foresman - Addison Wesley Mathematics builds understanding through connections to prior knowledge, math strands, other subjects and the real world. It provides practice for maximum results and offers assessment in a variety of ways. Besides carefully placed reviews at the end of each Section, an important Test Prep strand runs throughout the program. Writing exercises prepare students for open-ended and short-or extended-response questions on state and national tests. Spiral review in a test format help students keep their test-taking skills sharp.

● Priority on problem solving:

Problem-solving instruction is systematic and explicit. Reading connections help children with problem-solving skills and strategies for math. Reading for Math Success encourages students to use the reading skills and strategies they already know to solve math problems.

● Instructional Support

In the Teacher Edition, the Lesson Planner provides an easy, at-a-glance planning tool. It identifies objectives, math understandings, focus questions, vocabulary, and resources for each lesson in the chapter. Professional Development at the beginning of each chapter in the Teacher Edition includes a Skills Trace as well as Math Background and Teaching Tips for each section in the chapter.

Ancillaries help to reach all learners with practice, problem solving, hands-on math, language support, assessment and teacher support. Technology resources for both the student and the teacher provide a whole new dimension to math instruction by helping to create motivating and engaging lessons.

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to the
Missouri Mathematics Grade-Level Expectations
Kindergarten

Missouri Mathematics Grade-Level Expectations - Kindergarten	Scott Foresman – Addison Wesley Mathematics
GRADE K	
N: Number and Operations	
N.1: Understand numbers, ways of representing numbers, relationships among numbers and number systems	
N.1.A: rote count to 100 and recognize numbers up to 31	SE/TE: 51I-51N, 51, 52, 53A-53B, 53-54, 55A-55B, 55-56, 57A-57B, 57-58, 59A-59B, 59-60, 61A-61B, 61-62, 63A-63B, 63-64, 65A-65B, 65-66, 67B, 67-68, 71A-71B, 71-72, 73-74, 75I-75N, 75, 76, 77A-77B, 77-78, 79A-79B, 79-80, 81A-81B, 81-82, 83A-83B, 83-84, 85A-85B, 85-86, 87A-87B, 87-88, 89A-89B, 89-90, 91A-91B, 91-92, 97A-97B, 97, 99-100, 101I-101N, 101, 102, 103A-103B, 103-104, 105A-105B, 105-106, 107A-107B, 107-108, 109A-109B, 109-110, 111A-111B, 111-112, 113A-113B, 113-114, 115A-115B, 115-116, 117A-117B, 117-118, 121A-121B, 121-122, 123A-123B, 123-124, 127A-127B, 127-128, 129-130, 285I-285N, 285, 286, 287A-287B, 287-288, 289A-289B, 289-290, 291A-291B, 291-292, 293A-293B, 293-294, 295A-295B, 295-296, 299A-299B, 299-300, 301-302
N.1.B: recognize $\frac{1}{2}$; of a shape	SE/TE: 196, 213A-213B, 213-214, 215A-215B, 215-216, 222
N.1.C: use concrete objects to compose and decompose values up to 10	SE/TE: 57, 223I-223N, 223, 224, 225A-225B, 225-226, 227A-227B, 227-228, 229A-229B, 229-230, 231A-231B, 231-232, 233A-233B, 233-234, 235A-235B, 235-236, 237A-237B, 237-238, 239A-239B, 239-240, 241-242, 243I-243N, 243, 244, 245A-245B, 245-246, 247A-247B, 247-248, 249A-249B, 249-250, 251A-251B, 251-252, 253A-253B, 253-254, 255A-255B, 255-256, 257A-257B, 257-258, 259B, 259-260, 261-262, 263I-263N, 263, 264, 265A-265B, 265-266, 267A-267B, 267-268, 271A-271B, 271-272, 273A-273B, 273-274, 275A-275B, 275-276, 277A-277B, 277-278, 279A-279B, 279-280, 281A-281B, 281-282, 283-284
N.1.D: Missouri has no content for this Expectation at this grade	
N.2: Understand meanings of operations and how they relate to one another	
N.2.A: Missouri has no content for this Expectation at this grade	
N.2.B: Missouri has no content for this Expectation at this grade	

Missouri Mathematics Grade-Level Expectations - Kindergarten	Scott Foresman – Addison Wesley Mathematics
N.2.C: Missouri has no content for this Expectation at this grade	
N.2.D: Missouri has no content for this Expectation at this grade	
N.3: Compute fluently and make reasonable estimates	
N.3.A: Missouri has no content for this Expectation at this grade	
N.3.B: connect number words (orally) and quantities they represent	<p>In addition to the following references, each page in the student text includes the page number written as a numeral and also in word form.</p> <p>SE/TE: 51, 53A-53B, 53, 55A, 55, 57A, 57, 59A-59B, 59, 61A, 61, 63B, 75, 77A-77B, 77, 79A, 79, 81, 83A-83B, 83, 85A, 85, 91B, 101, 103A, 103, 105A-105B, 105, 107A, 107, 109A, 109, 111A, 111, 117A, 285, 287, 289A, 293B</p>
N.3.C: Missouri has no content for this Expectation at this grade	
N.3.D: Missouri has no content for this Expectation at this grade	
N.3.E: Missouri has no content for this Expectation at this grade	
A: Algebraic Relationships	
A.1: Understand patterns, relations and functions	
A.1.A: recognize or repeat sequences of sounds or shapes	SE/TE: 25L, 35A-35B, 35-36, 37A-37B, 37-38, 39A-39B, 39-40, 41A-41B, 41-42, 43A-43B, 43-44, 45A-45B, 45-46, 50
A.1.B: create and continue patterns	SE/TE: 25L, 35A-35B, 35-36, 37A-37B, 37-38, 39A-39B, 39-40, 41A-41B, 41-42, 43A-43B, 43-44, 45A-45B, 45-46, 50, 101J, 113A-113B, 113-114, 130, 285I-285N, 285, 286, 287A-287B, 287-288, 289A-289B, 289-290, 293A-293B, 293-294, 295A-295B, 295-296, 297A-297B, 297-298, 301-302
A.1.C: Missouri has no content for this Expectation at this grade	
A.1.D: Missouri has no content for this Expectation at this grade	
A.1.E: Missouri has no content for this Expectation at this grade	
A.2: Represent and analyze mathematical situations and structures using algebraic symbols	
A.2.A: Missouri has no content for this Expectation at this grade	
A.2.B: Missouri has no content for this Expectation at this grade	
A.2.C: Missouri has no content for this Expectation at this grade	
A.2.D: Missouri has no content for this Expectation at this grade	

Missouri Mathematics Grade-Level Expectations - Kindergarten	Scott Foresman – Addison Wesley Mathematics
A.3: Use mathematical models to represent and understand quantitative relationships	
A.3.A: model situations that involve whole numbers, using pictures, objects or symbols	Kindergarten students use pictures, objects, and symbols to model whole numbers throughout the curriculum as they explore numbers as quantities to be counted, compared, ordered, composed, and decomposed. Sample References: SE/TE: 53A-53B, 53-54, 55A-55B, 55-56, 61A-61B, 61-62, 63A-63B, 63-64, 77A-77B, 77-78, 79A-79B, 79-80, 81A-81B, 81-82, 87A-87B, 87-88, 103A-103B, 103-104, 105A-105B, 105-106, 115A-115B, 115-116, 117A-117B, 117-118, 225A-225B, 225-226, 227A-227B, 227-228, 235A-235B, 235-236, 237A-237B, 237-238, 245A-245B, 245-246, 247A-247B, 247-248, 255A-255B, 255-256, 257A-257B, 257-258, 265A-265B, 265-266, 267A-267B, 267-268, 269A-269B, 269-270, 275A-275B, 275-276, 287A-287B, 287-288, 289A-289B, 289-290, 291A-291B, 291-292
A.4: Analyze change in various contexts	
A.4.A: Missouri has no content for this Expectation at this grade	
G: Geometric and Spatial Relationships	
G.1: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships	
G.1.A: identify and describe 2- and 3-dimensional shapes using physical models (circle, rhombus, rectangle, triangle, sphere, rectangular prism, cylinder, pyramid) that represent shapes in their environment	SE/TE: 11, 15A-15B, 15-16, 17A-17B, 17-18, 19B, 19-20, 22, 24, 39A-39B, 39-40, 41A-41B, 50, 195I-195N, 195, 196, 197A-197B, 197-198, 199A-199B, 199-200, 201A-201B, 201-202, 203A-203B, 203-204, 205A-205B, 205-206, 207A-207B, 207-208, 209A-209B, 209-210, 211A-211B, 211-212, 219A-219B, 219, 221-222
G.1.B: Missouri has no content for this Expectation at this grade	
G.1.C: Missouri has no content for this Expectation at this grade	
G.2: Specify locations and describe spatial relationships using coordinate geometry and other representational systems	
G.2.A: describe, name and interpret relative positions in space (above, below, front, behind)	SE/TE: 1L, 1Q-1R, 1, 2, 3A-3B, 3-4, 5A-5B, 5-6, 7A-7B, 7-8, 9A-9B, 9-10, 21A-21B, 21, 23
G.3: Apply transformations and use symmetry to analyze mathematical situations	
G.3.A: use manipulatives to recognize from different perspectives and orientations models of slides and turns	SE/TE: 207A-207B, 207-208, 222
G.3.B: Missouri has no content for this Expectation at this grade	
G.3.C: Missouri has no content for this Expectation at this grade	
G.4: Use visualization, spatial reasoning and geometric modeling to solve problems	
G.4.A: Missouri has no content for this Expectation at this grade	

Missouri Mathematics Grade-Level Expectations - Kindergarten	Scott Foresman – Addison Wesley Mathematics
G.4.B: Missouri has no content for this Expectation at this grade	
M: Measurement	
M.1: Understand measurable attributes of objects and the units, systems and processes of measurement	
M.1.A: compare and order objects according to their size or weight	SE/TE: 131I-131N, 131, 133A-133B, 133-134, 135A-135B, 135-136, 137A-137B, 137-138, 145A-145B, 145-146, 149A-149B, 149-150, 155A-155B, 155-156, 157-158
M.1.B: Missouri has no content for this Expectation at this grade	
M.1.C: describe passage of time using terms such as today, yesterday, tomorrow	SE/TE: 159I, 159, 163A-163B, 163-164, 193
M.1.D: identify and know the value of a penny, nickel, dime, and quarter	SE/TE: 159K-159L, 159, 179A-179B, 179-180, 181A-181B, 181-182, 183A-183B, 183-184, 185A-185B, 185-186, 187A-187B, 187-188, 189A-189B, 189-190, 192, 193-194
M.2: Apply appropriate techniques, tools and formulas to determine measurements	
M.2.A: measure objects by comparison of lengths (shorter, same, longer)	SE/TE: 131I, 131K, 131M-131N, 131, 135A-135B, 135-136, 137A-137B, 137-138, 157
M.2.B: Missouri has no content for this Expectation at this grade	
M.2.C: Missouri has no content for this Expectation at this grade	
M.2.D: Missouri has no content for this Expectation at this grade	
M.2.E: Missouri has no content for this Expectation at this grade	
D: Data and Probability	
D.1: Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them	
D.1.A: Missouri has no content for this Expectation at this grade	
D.1.B: sort items according to their attributes	SE/TE: 1I-1L, 1, 13A-13B, 13-14, 15A-15B, 15-16, 17A-17B, 17-18, 19A-19B, 19-20, 24
D.1.C: create graphs using physical objects	SE/TE: 25K, 29A-29B, 29-30, 31A, 47B, 47, 67A-67B, 67-68, 74
D.2: Select and use appropriate statistical methods to analyze data	
D.2.A: Missouri has no content for this Expectation at this grade	
D.2.B: Missouri has no content for this Expectation at this grade	
D.2.C: Missouri has no content for this Expectation at this grade	
D.3: Develop and evaluate inferences and predictions that are based on data	
D.3.A: Missouri has no content for this Expectation at this grade	
D.3.B: Missouri has no content for this Expectation at this grade	
D.4: Understand and apply basic concepts of probability	
D.4.A: Missouri has no content for this Expectation at this grade	

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D.4.B: Missouri has no content for this Expectation at this grade	

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to the
Missouri Mathematics Grade-Level Expectations
Grade 1

Missouri Mathematics Grade-Level Expectations – Grade 1	Scott Foresman – Addison Wesley Mathematics
GRADE 1	
N: Number and Operations	
N.1: Understand numbers, ways of representing numbers, relationships among numbers and number systems	
N.1.A: read, write, and compare whole numbers less than 100	SE/TE: 1K-1L, 1, 2, 3A-3B, 3-4, 5A-5B, 5-6, 7A-7B, 7-8, 9A-9B, 9-10, 11-12, 13A-13B, 13-14, 15-16, 17A-17B, 17-18, 19A-19B, 19-20, 21A-21B, 21-22, 23A-23B, 23-24, 25-26, 33-34, 36, 38, 39-40, 41-42, 75A-75B, 75-76, 77A-77B, 77-78, 81-82, 85, 86, 88, 101, 241A-241B, 241-242, 245A-245B, 245-246, 263A-263B, 263-264, 281A-281B, 281-282, 283A-283B, 283-284, 285A-285B, 285-286, 287A-287B, 287-288, 295A-295B, 295-296, 297A-297B, 297-298, 301A-301B, 301-302, 303A-303B, 303-304
N.1.B: recognize $\frac{1}{2}$; and $\frac{1}{4}$; of a shape	SE/TE: 156, 181A-181B, 181-182, 183A-183B, 183-184, 185A-185B, 185-186, 187A (Spiral Review), 189A-189B, 189-190, 194, 195, 199, 202
N.1.C: compose or decompose whole numbers up to 20 using multiple strategies such as known facts, doubles and close to doubles, tens, and one place value	SE/TE: 123K-L, 125A-125B, 125-126, 127A-127B, 127-128, 129A-129B, 129-130, 131-132, 133A-133B, 133-134, 135, 136, 137A-137B, 137-138, 139A-139B, 139-140, 141A-141B, 141-142, 143A-143B, 143-144, 145A-145B, 145-146, 147, 148, 149, 150, 151, 152, 153-154, 154A-154B, 417A-417B, 417-418, 419A-419B, 419-420, 421A-421B, 421-422, 423A-423B, 423-424, 425A-425B, 425-426, 427A-427B, 427-428, 433, 434, 435A-435B, 435-436, 437A-437B, 437-438, 439A-439B, 439-440, 441A-441B, 441-442, 443A-443B, 443-444, 449, 450
N.1.D: skip count by 2s, 5s and 10s	SE/TE: 243A-243B, 243-244, 245A-245B, 245-246, 247A-247B, 247-248, 255A-255B, K 255-256, 257A-257B, 257-258, 259-260, 261A-261B, 261-262, 264 (Ex. 10), 265 (Think About It), 269A-269B, 271, 273, 274, 275, 277-278
N.2: Understand meanings of operations and how they relate to one another	
N.2.A: represent/ model a given situation involving addition and subtraction of whole numbers using pictures, objects, or symbols	SE/TE: 43I-43L, 43, 45A-45B, 45-46, 47A-47B, 47-48, 49A-49B, 49-50, 51A-51B, 51-52, 53A-53B, 53-54, 55-56, 57A-57B, 57-58, 59-60, 61A-61B, 61-62, 63A-63B, 63-64, 65A-65B, 65-66, 67A-67B, 67-68, 69A-69B, 69-70, 71A-71B, 71-72, 73-74, 77A-77B, 77-78, 79A-79B, 79-80, 81-82, 83, 84, 85, 87-88, 88A-88B, 89I-89L, 89-90, 91A-91B, 91-92, 93A-93B, 93-94, 95A-95B, 95-96, 97A-97B, 97-98, 99A-99B, 99-100, 101-102,

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N.2.B: Missouri has no content for this Expectation at this grade	
N.2.C: Missouri has no content for this Expectation at this grade	
N.2.D: Missouri has no content for this Expectation at this grade	
N.3: Compute fluently and make reasonable estimates	
N.3.A: describe or represent the mental strategy used to compute addition and subtraction problems	SE/TE: 43I-43L, 43, 45A-45B, 45-46, 47A-47B, 47-48, 49A-49B, 49-50, 51A-51B, 51-52, 53A-53B, 53-54, 55-56, 57A-57B, 57-58, 59-60, 61A-61B, 61-62, 63A-63B, 63-64, 65A-65B, 65-66, 67A-67B, 67-68, 69A-69B, 69-70, 71A-71B, 71-72, 73-74, 77A-77B, 77-78, 79A-79B, 79-80, 81-82, 83, 85, 87-88, 88A-88B, 89I-89L, 89, 91A-91B, 91-92, 93A-93B, 93-94, 95A-95B, 95-96, 97A-97B, 97-98, 99A-99B, 101-102, 103A-103B, 103-104, 107A-107B, 107-108, 109-110, 111A-111B, 111-112, 113A-113B, 113-114, 115-116, 117, 118, 121-122, 125A-125B, 125-126, 127A-127B, 127-128, 129A-129B, 129-130, 137A-137B, 137-138, 139A-139B, 139-140, 141A-141B, 141-142, 417A-417B, 417-418, 419A-419B, 419-420, 421A-421B, 421-422, 423A-423B, 423-424, 425A-425B, 425-426, 435A-435B, 435-436, 437A-437B, 437-438, 439A-439B, 439-440, 441A-441B, 441-442, 443A-443B, 443-444
N.3.B: use strategies to develop fluency with basic number relationships of addition and subtraction for sums up to 20	SE/TE: 43I-43L, 43, 45A-45B, 45-46, 47A-47B, 47-48, 49A-49B, 49-50, 51A-51B, 51-52, 53A-53B, 53-54, 55-56, 57A-57B, 57-58, 59-60, 61A-61B, 61-62, 63A-63B, 63-64, 65A-65B, 65-66, 67A-67B, 67-68, 69A-69B, 69-70, 71A-71B, 71-72, 73-74, 77A-77B, 77-78, 79A-79B, 79-80, 81-82, 83, 84, 85, 87-88, 88A-88B, 89I-89L, 89-90, 91A-91B, 91-92, 93A-93B, 93-94, 95A-95B, 95-96, 97A-97B, 97-98, 99A-99B, 101-102, 103A-103B, 103-104, 107A-107B, 107-108, 109-110, 111A-111B, 111-112, 113A-113B, 113-114, 115-116, 117, 118, 121-122, 128, 129A-129B, 129-130, 131-132, 133A-133B, 133-134, 135, 136, 137A-137B, 137-138, 139A-139B, 139-140, 141A-141B, 141-142, 143A-143B, 143-144, 145A-145B, 145-146, 147, 148, 149, 150, 151,

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N.3.C: apply and describe the strategy used to solve addition or subtraction problems	SE/TE: 43I-43L, 43, 45A-45B, 45-46, 47A-47B, 47-48, 49A-49B, 49-50, 51A-51B, 51-52, 53A-53B, 53-54, 55-56, 57A-57B, 57-58, 59-60, 61A-61B, 61-62, 63A-63B, 63-64, 65A-65B, 65-66, 67A-67B, 67-68, 69A-69B, 69-70, 71A-71B, 71-72, 73-74, 77A-77B, 77-78, 79A-79B, 79-80, 81-82, 83, 84, 85, 87-88, 88A-88B, 89I-89L, 89, 91A-91B, 91-92, 93A-93B, 93-94, 95A-95B, 95-96, 97A-97B, 97-98, 99A-99B, 99-100, 101-102, 103A-103B, 103-104, 107A-107B, 107-108, 109-110, 111A-111B, 111-112, 113A-113B, 113-114, 115-116, 117, 118, 119, 120, 121-122, 125A-125B, 125-126, 127A-127B, 127-128, 129A-129B, 129-130, 137A-137B, 137-138, 139A-139B, 139-140, 141A-141B, 141-142, 417A-417B, 417-418, 419A-419B, 419-420, 421A-421B, 421-422, 423A-423B, 423-424, 425A-425B, 425-426, 435A-435B, 435-436, 437A-437B, 437-438, 439A-439B, 439-440, 441A-441B, 441-442, 443A-443B, 443-444, 459A-459B, 459-460, 461A-461B, 461-462, 463A-463B, 463-464, 465A-465B, 465-466, 471A-471B, 471-472, 473A-473B, 473-474, 475A-475B, 475-476, 477A-477B, 477-478
N.3.D: Missouri has no content for this Expectation at this grade	
N.3.E: Missouri has no content for this Expectation at this grade	
A: Algebraic Relationships	
A.1: Understand patterns, relations and functions	
A.1.A: extend patterns of sound, shape, motion or a simple numeric pattern	SE/TE: 1I, R11-R14, 33AA-33B, 33-34, 36, 37, 54, 126, 166, 194, 210, 226, 243A-243B, 243-244, 255A-255B, 255-256, 257A-257B, 257-258, 259-260, 261A-261B, 261-262, 269-270, 273, 274, 275, 277-278, 302, 462
A.1.B: describe how simple repeating patterns are generated	SE/TE: 1I, R11-R14, 27A-B, 27-28, 29A-B, 29-30, 31A-B, 31-32, 33A-B, 33-34, 35, 36, 42, 88A, 154A
A.1.C: Missouri has no content for this Expectation at this grade	
A.1.D: Missouri has no content for this Expectation at this grade	
A.1.E: Missouri has no content for this Expectation at this grade	

Missouri Mathematics Grade-Level Expectations – Grade 1	Scott Foresman – Addison Wesley Mathematics
A.2: Represent and analyze mathematical situations and structures using algebraic symbols	
A.2.A: using addition or subtraction, represent a mathematical situation as an expression or number sentence	SE/TE: 49A-49B, 49-50, 51A, 51-52, 53A, 53-54, 55-56, 57A-57B, 57-58, 59, 60, 63-64, 65A-65B, 65-66, 67A-67B, 67-68, 69A-69B, 69-70, 73, 74, 77B, 77-78, 79A-79B, 79-80, 81, 82, 83, 85, 87-88, 88A-88B, 91A-91B, 91-92, 93A-93B, 93-94, 95A-95B, 95-96, 97A-97B, 97-98, 99-100, 101, 103B, 103-104, 105A-105B, 105-106, 107A-107B, 107-108, 109-110, 111A-111B, 111-112, 113A-113B, 113-114, 115, 116, 123K-123L, 125A-125B, 125-126, 127A-127B, 127-128, 129A-129B, 129-130, 131-132, 133A-133B, 133-134, 135, 136, 137A-137B, 137-138, 139A-139B, 139-140, 141A-141B, 141-142, 143A-143B, 143-144, 145A-145B, 145-146, 147, 148, 149, 151, 152, 153-154, 154A-154B, 317-318, 322, 328, 349-350, 351-352, 362, 400, 414A, 415I, 417A-417B, 417-418, 419A-419B, 419-420, 421A-421B, 421-422, 423A-423B, 423-424, 425A-425B, 425-426, 427A-427B, 427-428, 433, 434, 435A-435B, 435-436, 437A-437B, 437-438, 439A-439B, 439-440, 441A-441B, 441-442, 443A-443B, 443-444, 445A-445B, 445-446, 447A-447B, 447-448, 449, 450, 451, 471A-471B, 471-472, 473A-473B, 473-474, 475A-475B, 475-476, 477A-477B, 477-478, 483-484, 485-486, 491
A.2.B: apply the commutative and associative properties of addition to whole numbers	SE/TE: 93A-93B, 93-94, 101, 116, 123, 139A-139B, 139-140, 154, 154A-154B, 415J, 427A-427B, 427-428, 433, 437A-437B, 437-438, 448, 452, 453, 455-456
A.2.C: Missouri has no content for this Expectation at this grade	
A.2.D: Missouri has no content for this Expectation at this grade	
A.3: Use mathematical models to represent and understand quantitative relationships	
A.3.A: model situations that involve the addition of whole numbers, using pictures, objects or symbols	SE/TE: 43I-43L, 43, 45A-45B, 45-46, 47A-47B, 47-48, 49A-49B, 49-50, 51A-51B, 51-52, 53A-53B, 53-54, 55-56, 57A-57B, 57-58, 59-60, 61A-61B, 61-62, 63A-63B, 63-64, 65A-65B, 65-66, 67A-67B, 67-68, 69A-69B, 69-70, 71A-71B, 71-72, 73-74, 77A-77B, 77-78, 79A-79B, 79-80, 81-82, 83, 84, 85, 87-88, 88A-88B, 89I-89L, 89-90, 91A-91B, 91-92, 93A-93B, 93-94, 95A-95B, 95-96, 97A-97B, 97-98, 99A-99B, 99-100, 101-102, 103A-103B, 103-104, 107A-107B, 107-108, 109-110, 111A-111B, 111-112, 113A-113B, 113-114, 115-116, 117, 118, 119, 120, 121-122, 125A-125B, 125-126, 127A-127B, 127-128, 131-132, 133A-133B, 133-134, 143A-143B, 143-144, 145A-145B, 145-146, 426, 444, 445A-445B, 445-446, 447A-447B, 447-448, 449, 450, 453, 454, 457I-457L, 459A-459B, 459-460, 461A-461B,

Missouri Mathematics Grade-Level Expectations – Grade 1	Scott Foresman – Addison Wesley Mathematics
Continued	461-462, 463A-463B, 463-464, 465A-465B, 465-466, 471A-471B, 471-472, 473A-473B, 473-474, 475A-475B, 475-476, 477A-477B, 477-478
A.4: Analyze change in various contexts	
A.4.A: Missouri has no content for this Expectation at this grade	
G: Geometric and Spatial Relationships	
G.1: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships	
G.1.A: identify, name and describe 2- and 3-dimensional shapes using physical models (circle, triangle, trapezoid, rectangle, rhombus, sphere, rectangular prism, cylinder, pyramid)	SE/TE: R9, 155I, 155, 157A-B, 157-158, 159A-B, 159-160, 161A-B, 161-162, 163, 165A-B, 165-166, 167A-B, 167-168, 169A-B, 169-170, 171A-B, 171-172, 173A-B, 173-174, 177-178, 179, 180, 193A-B, 193-194, 196, 197, 198, 201-201, 232, 238A
G.1.B: Missouri has no content for this Expectation at this grade	
G.1.C: use models to compose and decompose 2-dimensional shapes	SE/TE: 177A-177B, 177-178, 181A-181B, 181-182, 183A-183B, 183-184, 185A-185B, 185-186, 189A-189B, 189-190, 195, 202
G.2: Specify locations and describe spatial relationships using coordinate geometry and other representational systems	
G.2.A: describe, name and interpret relative positions in space (left, right)	SE/TE: R10, 173B, 263B, 315A-B, 315-316, 317A-B, 317-318, 328, 400
G.3: Apply transformations and use symmetry to analyze mathematical situations	
G.3.A: use manipulatives to model flips	SE/TE: 173A-B, 173-174, 196, 198, 492B
G.3.B: Missouri has no content for this Expectation at this grade	
G.3.C: recognize shapes that have symmetry	SE/TE: 155, 171A-171B, 171-172, 199, 202
G.4: Use visualization, spatial reasoning and geometric modeling to solve problems	
G.4.A: Missouri has no content for this Expectation at this grade	
G.4.B: Missouri has no content for this Expectation at this grade	
M: Measurement	
M.1: Understand measurable attributes of objects and the units, systems and processes of measurement	
M.1.A: select the appropriate tool for the attribute being measured (size, temperature, time, weight)	SE/TE: 365A-365B, 365-366, 371A-371B, 371-372, 373A-373B, 373-374, 375A-375B, 375-376, 379A-379B, 379-380, 381, 382, 383A-383B, 383-384, 385A-385B, 385-386, 387A-387B, 387-388, 389A-389B, 389-390, 391A-391B, 391-392, 393A-393B, 393-394, 395A-395B, 395-396, 397A-397B, 397-398, 399, 400, 405A-405B, 409, 411, 412, 413-414, 492A
M.1.B: Missouri has no content for this Expectation at this grade	
M.1.C: tell time to the nearest half hour	SE/TE: 205A-205B, 205-206, 207A-207B, 207-208, 209A-209B, 209-210, 211A-211B, 211-212, 213-214, 215A-215B, 215-216, 217, 223, 229A-229B, 229-230, 232, 233, 234, 236, 237-238, 238A, 322, 328A, 400

Missouri Mathematics Grade-Level Expectations – Grade 1	Scott Foresman – Addison Wesley Mathematics
M.1.D: count money to a dollar, including half dollars	SE/TE: 329I-329L, 329, 330, 331A-331B, 331-332, 333A-333B, 333-334, 335A-335B, 335-336, 337A-337B, 337-338, 339A-339B, 339-340, 341, 342, 343A-343B, 343-344, 345A-345B, 345-346, 347A-347B, 347-348, 351A-351B, 353A-353B, 353-354, 355, 356, 357, 358, 359, 360, 361-362, 382, 414A-414B, 470, 484, 492B
M.2: Apply appropriate techniques, tools and formulas to determine measurements	
M.2.A: use repetition of a single unit to measure something larger than the unit, (e.g. length of book with paper clips)	SE/TE: 365A-365B, 365-366, 371A-371B, 371-372, 373A-373B, 373-374, 375A-375B, 375-376, 379A-379B, 379-380, 381, 382, 383A-383B, 383-384, 385A-385B, 385-386, 387A-387B, 387-388, 389A-389B, 389-390, 391A-391B, 391-392, 393A-393B, 393-394, 399, 400, 408, 409, 413
M.2.B: Missouri has no content for this Expectation at this grade	
M.2.C: Missouri has no content for this Expectation at this grade	
M.2.D: Missouri has no content for this Expectation at this grade	
M.2.E: Missouri has no content for this Expectation at this grade	
D: Data and Probability	
D.1: Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them	
D.1.A: pose questions and gather data about themselves and their surroundings	SE/TE: 177A-177B, 177-178, 309A-309B, 309-310, 311A-311B, 311-312, 313A-313B, 313-314, 319A, 403, 412
D.1.B: sort and classify items according to their attributes	SE/TE: R15-R16, 167A-167B, 167-168, 169B, 170, 307A-307B, 307-308, 319-320, 321, 431A-431B, 431-432, 433
D.1.C: represent one-to-one correspondence data using pictures and bar graphs	SE/TE: R15-R16, 175-176, 191-192, 218, 251A-251B, 251-252, 309A-309B, 309-310, 311A-311B, 311-312, 319A, 321, 324, 328, 385B, 414A, 479-480, 481A-481B, 481-482
D.2: Select and use appropriate statistical methods to analyze data	
D.2.A: Missouri has no content for this Expectation at this grade	
D.2.B: Missouri has no content for this Expectation at this grade	
D.2.C: Missouri has no content for this Expectation at this grade	
D.3: Develop and evaluate inferences and predictions that are based on data	
D.3.A: Missouri has no content for this Expectation at this grade	
D.3.B: Missouri has no content for this Expectation at this grade	
D.4: Understand and apply basic concepts of probability	
D.4.A: Missouri has no content for this Expectation at this grade	
D.4.B: Missouri has no content for this Expectation at this grade	

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to the
Missouri Mathematics Grade-Level Expectations
Grade 2

Missouri Mathematics Grade-Level Expectations – Grade 2	Scott Foresman – Addison Wesley Mathematics
GRADE 2	
N: Number and Operations	
N.1: Understand numbers, ways of representing numbers, relationships among numbers and number systems	
N.1.A: read, write, and compare whole numbers less than 1000	SE/TE: 15A-15B, 15-16, 21, 37, 55-56, 79I, 81A-81B, 81-82, 83A-83B, 83-84, 85A-85B, 85-86, 91A-91B, 91-92, 93, 95B, 95-96, 97A-97B, 97-98, 107, 108, 131-132, 162, 166, 203, 209J, 238, 391A-391B, 391-392, 393A-3693B, 393-394, 395A-395B, 395-396, 397A-397B, 397-398, 399A-399B, 399-400, 407A-407B, 407-408, 409A-409B, 409-410, 416, 417, 419, 423-424, 424A, 498A
N.1.B: recognize unit fractions of a shape	SE/TE: 245J, 269A-269B, 269-270, 271A-271B, 271-272, 273B, 274, 275B, 276, 281, 283, 288, 372, 382, 404
N.1.C: compose or decompose numbers by using a variety of strategies, such as using known facts, tens place value or landmark numbers to solve problems	SE/TE: 1I-1L, 1-2, 3A-3B, 3-4, 5A-5B, 5-6, 7-8, 9A-9B, 9-10, 11, 12, 13A-13B, 13-14, 15A-15B, 15-16, 17A-17B, 17-18, 19A-19B, 19-20, 21, 22, 23A-23B, 23-24, 25A-25B, 25-26, 27A-27B, 27-28, 29A-29B, 29-30, 31A-31B, 31-32, 33, 34, 35, 36, 37, 38, 39-40, 41I-41L, 41-42, 43A-43B, 43-44, 45A-45B, 45-46, 47A-47B, 47-48, 49A-49B, 49-50, 51A-51B, 51-52, 53A-53B, 53-54, 55, 57A-57B, 57-58, 59, 60, 61A-61B, 61-62, 63A-63B, 63-64, 65A-65B, 65-66, 67A-67B, 67-68, 69A-69B, 69-70, 71, 72, 73, 74, 75, 76, 77-78, 78A-78B, 79I, 81A-81B, 81-82, 83A-83B, 83-84, 85A-85B, 85-86, 91A-91B, 91-92, 93, 131-132, 159A-159B, 159-160, 162, 166, 172A, 173J, 175A, 175, 177, 179, 202, 211A, 211, 213, 215A, 215, 224, 231, 238, 254, 308, 338B, 391A-391B, 391-392, 393A-393B, 393-394, 395A-395B, 395-396, 397A-397B, 397-398, 401A-401B, 401-402, 403, 423, 431A-431B, 431, 433A, 435A-435B, 447A-447B, 447, 449A
N.1.D: skip count by multiples of numbers less than 10	SE/TE: 99A-99B, 99-100, 107, 109A-109B, 109-110, 111-112, 113-114, 125, 132, 196, 244A, 320, 413A-413B, 413-414, 417, 467A-467B, 467-468, 493

Missouri Mathematics Grade-Level Expectations – Grade 2	Scott Foresman – Addison Wesley Mathematics
N.2: Understand meanings of operations and how they relate to one another	
N.2.A: represent/ model a given situation involving two-digit whole number addition or subtraction	SE/TE: 135A-135B, 135-136, 137A-137B, 137-138, 139A-139B, 139-140, 141A-141B, 141-142, 143, 145A-145B, 145-146, 147A-147B, 147-148, 149A-149B, 149-150, 151, 152, 155A-155B, 155-156, 161A-161B, 161-162, 165, 167, 168, 171-172, 172B, 173I-173L, 173, 174, 175A-175B, 175-176, 177A-177B, 177-178, 179A-179B, 179-180, 181A-181B, 181-182, 183, 185A-185B, 185-186, 187A-187B, 187-188, 189-190, 193A-193B, 193-194, 197A-197B, 197-198, 199B, 199-200, 201, 202, 203, 204, 205, 206, 207-208, 209I-209L, 209, 210, 211A-211B, 211-212, 213A-213B, 213-214, 215A-215B, 215-216, 217A-217B, 217-218, 220, 221A-B, 221-222, 223, 224, 225A-225B, 225-226, 227A-227B, 227-228, 229B, 229, 231A-231B, 231-232, 233-234, 235B, 235-236, 237, 238, 239, 240, 241, 243-244, 244A-244B, 268, 282, 308, 332, 338B, 362, 492
N.2.B: Missouri has no content for this Expectation at this grade	
N.2.C: Missouri has no content for this Expectation at this grade	
N.2.D: Missouri has no content for this Expectation at this grade	
N.3: Compute fluently and make reasonable estimates	
N.3.A: describe or notate the mental strategy used to compute addition or subtraction of whole numbers, including 2-digit numbers	SE/TE: 1I-1L, 1-2, 3A-3B, 3-4, 5A-5B, 5-6, 7-8, 9A-9B, 9-10, 11, 12, 13A-13B, 13-14, 15A-15B, 15-16, 17A-17B, 17-18, 19A-19B, 19-20, 21, 22, 23A-23B, 23-24, 25A-25B, 25-26, 27A-27B, 27-28, 29A-29B, 29-30, 31A-31B, 31-32, 33, 34, 35, 36, 37, 38, 39-40, 41I-41L, 41-42, 43A-43B, 43-44, 45A-45B, 45-46, 47A-47B, 47-48, 49A-49B, 49-50, 51A-51B, 51-52, 53A-53B, 53-54, 57A-57B, 57-58, 59, 60, 61A-61B, 61-62, 63A-63B, 63-64, 65A-65B, 65-66, 67A-67B, 67-68, 69A-69B, 69-70, 71, 72, 73, 74, 75, 76, 77-78, 78A-78B, 119B, 120, 133I-133L, 133, 134, 135A-135B, 135-136, 137A-137B, 137-138, 139A-139B, 139-140, 141A-141B, 141-142, 143, 144, 145A-145B, 145-146, 147A-147B, 147-148, 149A-149B, 149-150, 151, 152, 155A-155B, 155-156, 157A-157B, 157-158, 159A-159B, 159-160, 161A-161B, 161-162, 165, 166, 172A-172B, 184, 201, 216, 224, 228, 231, 235A-235B, 237, 238, 241, 338B, 382, 427A-427B, 427-428, 441-442
N.3.B: demonstrate fluency including quick recall with basic number relationships of addition and subtraction for sums up to 20	SE/TE: 1I-1L, 1-2, 3A-3B, 3-4, 5A-5B, 5-6, 7-8, 9A-3B, 9-10, 11, 12, 13A-13B, 13-14, 15A-15B, 15-16, 17A-17B, 17-18, 19A-19B, 19-20, 21, 22, 23A-23B, 23-24, 25A-25B, 25-26, 27A-27B, 27-28, 29A-29B, 29-30, 31A-31B, 31-32, 33, 34, 35, 36, 37, 38, 39-40, 41I-41L, 41-42, 43A-43B, 43-44, 45A-45B, 45-46, 47A-47B, 47-48, 49A-49B,

Missouri Mathematics Grade-Level Expectations – Grade 2	Scott Foresman – Addison Wesley Mathematics
Continued	49-50, 51A-51B, 51-52, 53A-53B, 53-54, 57A-57B, 57-58, 59, 60, 61A-61B, 61-62, 63A-63B, 63-64, 65A-65B, 65-66, 67A-67B, 67-68, 69A-69B, 69-70, 71, 72, 73, 74, 75, 76, 77-78, 78A-78B, 119B, 120, 144, 152, 166, 172A, 184, 195, 202, 219, 224, 235A, 235, 308, 332, 338A, 498A
N.3.C: apply and describe the strategy used to compute 2-digit addition or subtraction problems with regrouping	SE/TE: 173I-173L, 173, 174, 175A-175B, 175-176, 177A-177B, 177-178, 179A-179B, 179-180, 181A-181B, 181-182, 183, 185A-185B, 185-186, 187A-187B, 187-188, 189-190, 193A-193B, 193-194, 197A-197B, 197-198, 199B, 199-200, 201, 202, 203, 204, 205, 206, 207-208, 209I-209L, 209, 210, 211A-211B, 211-212, 213A-213B, 213-214, 215A-215B, 215-216, 217A-217B, 217-218, 220, 221A-221B, 221-222, 223, 224, 225A-225B, 225-226, 227A-227B, 227-228, 229B, 229, 231A-231B, 231-232, 233-234, 235B, 235-236, 237, 238, 239, 240, 241, 243-244, 244A-244B, 268, 282, 308, 332, 338B, 362, 492
N.3.D: estimate sums and differences of whole numbers	SE/TE: 141A-141B, 141-142, 143, 149A-149B, 149-150, 151, 169, 170, 171-172, 191A-191B, 191-192, 229A-229B, 229-230, 429A-429B, 429-430, 432, 445A-445B, 445-446, 452, 453A-453B, 453-454, 457, 460, 463-464
N.3.E: Missouri has no content for this Expectation at this grade	
A: Algebraic Relationships	
A.1: Understand patterns, relations and functions	
A.1.A: describe and extend simple numeric patterns and change from one representation to another	SE/TE: 99A-99B, 99-100, 107, 109A-109B, 109-110, 111-112, 113-114, 125, 132, 157A-157B, 157-158, 182, 196, 244A, 413A-413B, 413-414, 417, 420, 443B, 443, 467A-467B, 467-468, 476, 493
A.1.B: describe how simple growing patterns are generated	SE/TE: 99A-99B, 99-100, 107, 109A-109B, 109-110, 111-112, 113-114, 125, 132, 157A-157B, 157-158, 182, 196, 244A, 413A-413B, 413-414, 417, 420, 443B, 443, 467A-467B, 467-468, 476
A.1.C: Missouri has no content for this Expectation at this grade	
A.1.D: Missouri has no content for this Expectation at this grade	
A.1.E: Missouri has no content for this Expectation at this grade	
A.2: Represent and analyze mathematical situations and structures using algebraic symbols	
A.2.A: using addition or subtraction, represent a mathematical situation as an expression or number sentence	SE/TE: 1I-1J, 3A-3B, 3-4, 5A-5B, 5-6, 7-8, 9A-9B, 9-10, 11, 13A-13B, 13-14, 17A-17B, 17-18, 19A-19B, 19-20, 21, 23A-23B, 23-24, 25A-25B, 25-26, 27A-27B, 27-28, 29A-29B, 29-30, 31A-31B, 31-32, 33, 34, 35, 36, 37, 38, 39-40, 43, 45A-45B, 45-46, 47A-47B, 47-48, 49A-49B, 49-50, 51A-51B, 51-52, 53A-53B, 53-54, 57A-57B, 57-58, 59, 60, 61-62, 63A-63B, 63-64, 65A-65B, 65, 67A-67B, 67-68, 69A, 69-70, 71, 72, 73, 74,

Missouri Mathematics Grade-Level Expectations – Grade 2	Scott Foresman – Addison Wesley Mathematics
Continued	75, 76, 77-78, 78A-78B, 119B, 120, 135A-135B, 135-136, 137A-137B, 137-138, 139A-139B, 139-140, 141A-141B, 141-142, 143, 144, 145A-145B, 145-146, 147A-147B, 147-148, 149A-149B, 149-150, 151, 152, 155A-155B, 155-156, 157A-157B, 157-158, 159A-159B, 159-160, 161A-161B, 161-162, 163A-163B, 163-164, 165, 166, 171-172, 172A, 175, 177, 179, 181A-181B, 184, 185A-185B, 185-186, 189A-189B, 189-190, 195, 197-198, 199-200, 201, 202, 205, 208, 211, 217A, 219, 221A-221B, 221-222, 223, 224, 225A-225B, 225-226, 230, 233A-233B, 233-234, 235A-235B, 235, 237, 243-244, 244B, 268, 279, 320, 377A, 381, 385, 431A, 442, 451, 458, 459, 464, 496
A.2.B: solve problems with whole numbers using the commutative and associative properties of addition	SE/TE: 23A-B, 23-24, 27A-27B, 27-28, 31A-31B, 31, 36, 39-40, 49A-49B, 49-50, 77, 187A-187B, 187-188, 208
A.2.C: Missouri has no content for this Expectation at this grade	
A.2.D: Missouri has no content for this Expectation at this grade	
A.3: Use mathematical models to represent and understand quantitative relationships	
A.3.A: model situations that involve addition and subtraction of whole numbers, using pictures, objects or symbols	SE/TE: 11-1J, 3A-3B, 3-4, 5A-5B, 5-6, 7-8, 9A-9B, 9-10, 11, 13A-13B, 13-14, 17A-17B, 17-18, 19A-19B, 19-20, 21, 23A-23B, 23-24, 25A-25B, 25-26, 27A-27B, 27-28, 29A-29B, 29-30, 31A-31B, 31-32, 33, 34, 35, 36, 37, 38, 39-40, 43, 45A-45B, 45-46, 47A-47B, 47-48, 49A-49B, 49-50, 51A-51B, 51-52, 53A-53B, 53-54, 57A-57B, 57-58, 59, 60, 61-62, 63A-63B, 63-64, 65A-65B, 65, 67A-67B, 67-68, 69A, 69-70, 71, 72, 73, 74, 75, 76, 77-78, 78A-78B, 119B, 120, 135A-135B, 135-136, 137A-137B, 137-138, 139A-139B, 139-140, 141A-141B, 141-142, 143, 144, 145A-145B, 145-146, 147A-147B, 147-148, 149A-149B, 149-150, 151, 152, 155A-155B, 155-156, 157A-157B, 157-158, 159A-159B, 159-160, 161A-161B, 161-162, 163A-163B, 163-164, 165, 166, 171-172, 172A, 175, 177, 179, 181A-181B, 184, 185A-185B, 185-186, 189A-189B, 189-190, 195, 197-198, 199-200, 201, 202, 205, 208, 211, 217A, 219, 221A-221B, 221-222, 223, 224, 225A-225B, 225-226, 230, 233A-233B, 233-234, 235A-235B, 235, 237, 243-244, 244B, 268, 279, 320, 377A, 381, 385, 431A, 442, 451, 458, 459, 464, 496
A.4: Analyze change in various contexts	
A.4.A: describe qualitative change, such as students growing taller	Students explore qualitative change as they compose and position shapes in different ways. They also explore the qualitative change that occurs throughout the life cycle of a caterpillar/butterfly. SE/TE: 255A-255B, 255-256, 259A-B, 259-260, 264, 267, 279B, 287, 329-330, 338A, 492

Missouri Mathematics Grade-Level Expectations – Grade 2	Scott Foresman – Addison Wesley Mathematics
G: Geometric and Spatial Relationships	
G.1: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships	
G.1.A: describe attributes and parts of 2- and 3-dimensional shapes (circle, triangle, trapezoid, rectangle, rhombus, sphere, rectangular prism, cylinder, pyramid)	SE/TE: 245, 246, 247A-247B, 247-248, 249A-249B, 249-250, 251A-251B, 251-252, 253, 254, 255A-255B, 255-256, 257A-257B, 257-258, 259A-259B, 259-260, 261A-261B, 261-262, 265A-265B, 265-266, 267, 268, 2281, 282, 284, 285, 287-288, 308, 318, 332, 361-362, 384, 492, 498A
G.1.B: Missouri has no content for this Expectation at this grade	
G.1.C: Missouri has no content for this Expectation at this grade	
G.2: Specify locations and describe spatial relationships using coordinate geometry and other representational systems	
G.2.A: identify locations with simple relationships on a map (coordinate system)	SE/TE: 325A-325B, 325-326, 331, 338, 498B
G.3: Apply transformations and use symmetry to analyze mathematical situations	
G.3.A: use manipulatives to model slides and turns	SE/TE: 259A-259B, 259-260, 267, 279B, 338A, 492
G.3.B: Missouri has no content for this Expectation at this grade	
G.3.C: create shapes that have symmetry	SE/TE: 261A-261B, 261-262, 266, 267, 279B, 279-280, 286, 287, 332
G.4: Use visualization, spatial reasoning and geometric modeling to solve problems	
G.4.A: Missouri has no content for this Expectation at this grade	
G.4.B: Missouri has no content for this Expectation at this grade	
M: Measurement	
M.1: Understand measurable attributes of objects and the units, systems and processes of measurement	
M.1.A: select an appropriate unit and tool for the attribute being measured (size, temperature, time, weight) and to the nearest inch, centimeter, degree, hour and pound	SE/TE: 289I, 297A-297B, 297-298, 299A-299B, 299-300, 305A-305B, 305-306, 324, 329A-329B, 329, 334, 336, 337, 339I, 339K-339L, 339, 340, 341A-341B, 341-342, 343A-343B, 343-344, 345A-345B, 345-346, 347A-347B, 347-348, 350, 351A-351B, 351-352, 353A-353B, 355A-355B, 355-356, 357A-357B, 357-358, 359A-359B, 361, 365A-365B, 365-366, 367A-367B, 367-368, 369A-369B, 369-370, 371, 372, 379A-379B, 379-380, 383, 386, 387-388, 458
M.1.B: Missouri has no content for this Expectation at this grade	
M.1.C: tell time to the nearest one fourth (quarter) hour	SE/TE: 289I, 289K-289L, 289, 290, 291A-291B, 291-292, 293A-293B, 293-294, 295A-295B, 295-296, 301B, 306, 307, 318, 329, 337, 362, 458

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M.1.D: make change from a dollar	SE/TE: 119A-119B, 119-120, 121 (Spiral Review), 125, 132, 225A, 225, 338B
M.2: Apply appropriate techniques, tools and formulas to determine measurements	
M.2.A: use standard units of measure (cm, inch) and the inverse relationships between the size and number of units	SE/TE: 339K-339L, 339, 340, 343A-343B, 343-344, 345A-345B, 345-346, 347A-347B, 347-348, 350, 351A-351B, 351-352, 355A-355B, 355-356, 357A-357B, 357-358, 359B, 361, 365A-365B, 365-366, 367A-367B, 367-368, 369A-369B, 369-370, 371, 372, 379A-379B, 379-380, 383, 386, 387-388, 458
M.2.B: Missouri has no content for this Expectation at this grade	
M.2.C: Missouri has no content for this Expectation at this grade	
M.2.D: Missouri has no content for this Expectation at this grade	
M.2.E: Missouri has no content for this Expectation at this grade	
D: Data and Probability	
D.1: Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them	
D.1.A: pose questions and gather data about themselves and their surroundings	SE/TE: 289J, 310, 311A-311B, 311-312, 313A-B, 313-314, 315A-315B, 315-316, 319A, 319, 321A-321B, 322, 323A-323B, 336, 373A-373B, 373, 375A-375B, 375, 386
D.1.B: sort and classify items according to their attributes and organize data about the items	SE/TE: 245, 246, 247A-247B, 247-248, 249A-249B, 249-250, 251A-251B, 251-252, 253, 255A-255B, 255-256, 257A-257B, 257-258, 265A-265B, 265-266, 267, 279B, 282, 284, 285, 286, 287-288, 289J, 308, 309-310, 311A, 311-312, 313A-313B, 313-314, 315A-315B, 315-316, 318, 319A-319B, 319-320, 321A-321B, 321-322, 323A-323B, 323-324, 331, 332, 333, 335, 338, 342, 343A-343B, 345A, 357B, 362, 363A-363B, 363, 365A-365B, 365, 367B, 367, 373A-373B, 373, 375A-375B, 375, 379A-379B, 379-380, 382, 386
D.1.C: represent one- to-many correspondence data using pictures and bar graphs	SE/TE: 319A-319B, 320, 327B, 327, 331
D.2: Select and use appropriate statistical methods to analyze data	
D.2.A: Missouri has no content for this Expectation at this grade	
D.2.B: Missouri has no content for this Expectation at this grade	
D.2.C: Missouri has no content for this Expectation at this grade	

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D.3: Develop and evaluate inferences and predictions that are based on data	
D.3.A: Missouri has no content for this Expectation at this grade	
D.3.B: Missouri has no content for this Expectation at this grade	
D.4: Understand and apply basic concepts of probability	
D.4.A: Missouri has no content for this Expectation at this grade	
D.4.B: Missouri has no content for this Expectation at this grade	

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to the
Missouri Mathematics Grade-Level Expectations
Grade 3

Missouri Mathematics Grade-Level Expectations – Grade 3	Scott Foresman – Addison Wesley Mathematics
GRADE 3	
N: Number and Operations	
N.1: Understand numbers, ways of representing numbers, relationships among numbers and number systems	
N.1.A: read, write and compare whole numbers up to 10,000	SE/TE: 4A-4B, 4-5, 6A-6B, 6-7, 8A-8B, 8-9, 10A-10B, 10-11, 12A-12B, 12-13, 16, 17, 18A-18B, 18-21, 22A-22B, 22-23, 27, 31, 34, 35, 46, 47, 50, 52, 53, 54, 97, 101, 125, 143, 167, 168A-168B, 168-169, 172, 173, 175, 177, 178-179, 180, 181, 185, 189, 191, 195, 287, 291, 305, 358-359, 373, 397, 416, 445, 617, 629, 651, 668-669
N.1.B: represents halves, thirds and fourths	SE/TE: 498A-498B, 498-501, 502A-502B, 502-503, 504A-504B, 504-505, 506A-506B, 506-509, 510A-510B, 510-511, 512A-512B, 512-513, 514, 515, 516A-516B, 516-517, 518A-518B, 518-519, 520A-520B, 520-521, 522A-522B, 522-525, 530, 531, 533, 542A-542B, 542-543, 547, 548, 550-551, 552, 554-555, 558-559, 560
N.1.C: recognize equivalent representations for the same number and generate them by decomposing and composing numbers including expanded notation	SE/TE: 2J, 6A-6B, 6-7, 8A-8B, 8-9, 10A-10B, 10-11, 12-13, 16, 17, 21, 23, 50, 52, 53, 54, 56-57, 60-61, 80A-80B, 80-81, 82A-82B, 82-85, 92, 146A-146B, 146-147, 149, 150A-150B, 150, 152, 156A-156B, 156, 158, 167, 186-187, 260A-260B, 260-261, 304, 389, 630A-630B, 630-631, 650A-650B, 650-651, 668
N.1.D: classify numbers by their characteristics, including odd and even	SE/TE: 24-26, 258I-258J, 260A-B, 260-261, 262A-262B, 262-265, 276A-276B, 276-279, 280A-280B, 280-281, 282A-282B, 282-283, 288A-288B, 288-291, 316A-316B, 316-317, 318A-318B, 318-319, 320A-320B, 320-323, 324A-324B, 324-327, 386A-386B, 386-387, 388A-388B, 388-389, 390A-390B, 390-391, 392A-392B, 392-393, 402A-402B, 402-403, 476A, 629, 643, 646, 649, 665, 669
N.2: Understand meanings of operations and how they relate to one another	
N.2.A: represent/ model a given situation involving multiplication and related division using various models including sets, arrays, areas, repeated addition/subtraction, sharing and partitioning	SE/TE: 258-259, 260A-260B, 260-261, 266A-266B, 266-267, 268-269, 273, 274, 275, 276A-276B, 276-277, 280A-280B, 280-281, 282A-282B, 282, 284B, 284-285, 286A, 286-287, 290, 293, 294A-294B, 294-295, 297, 300, 302-303, 304, 306-307, 309, 310-311, 314I-314J, 317, 319, 322, 324A-324B, 324-325, 339, 346A-346B, 346-347, 348B, 348-349, 352-353, 356-357, 364-367, 368I-368J, 369, 370A-370B, 370-371, 372A-372B, 372-373, 374A-374B, 374-376, 382-383,

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Continued	384A-384B, 384-385, 386A-386B, 386-387, 388A-388B, 388-389, 390A-390B, 390-391, 392A-392B, 392-393, 394-395, 396A-396B, 396-397, 398A-398B, 398-400, 402A-402B, 402-403, 404A-404B, 404-405, 406A-406B, 412-413, 418-421, 626A-B, 626-629, 630A-B, 630-631, 634, 637, 638A-B, 638-639, 640B, 640-641, 648A-648B, 648-649, 650A-650B, 650-651, 652A-652B, 652-655, 656A-656B, 658A-658B, 663, 664-667, 671, 673, 675, 677
N.2.B: describe the effects of adding and subtracting whole numbers as well as the relationship between the two operations	SE/TE: 64-65, 66A-66B, 66-69, 70A-70B, 70-71, 72A-72B, 72-73, 74-75, 76A-76B, 76-77, 78, 79, 80A-80B, 80-81, 82A-82B, 82-85, 92, 93, 94A-94B, 94-95, 96A-96B, 96-97, 101, 102B, 103, 104A-104B, 106, 107, 108-109, 110-111, 112-113, 114, 116-119, 120-123, 124I-124J, 124-125, 126A-126B, 126-127, 128A-128B, 128-131, 132A-132B, 132-135, 136A-136B, 136-137, 143, 144, 145, 147, 148A-148B, 148-149, 150A-150B, 150-151, 152A-152B, 152-155, 156A-156B, 156-157, 158, 159, 165, 166A-166B, 166-167, 169, 170A-170B, 172-173, 176-177, 178-179, 182-185, 186-189, 273, 304
N.2.C: Missouri has no content for this Expectation at this grade	
N.2.D: Missouri has no content for this Expectation at this grade	
N.3: Compute fluently and make reasonable estimates	
N.3.A: represent a mental strategy used to compute a given multiplication problem up to 9 x 9	SE/TE: 258I-258J, 258-259, 260A-260B, 260-261, 266A-266B, 266-267, 268-269, 273, 274, 275, 276A-276B, 276-277, 280A-280B, 280-281, 282A-282B, 282, 284B, 284-285, 286A, 286-287, 290, 293, 294A-294B, 294-295, 297, 300, 302-303, 306-307, 309, 310-311, 314I-314J, 314-315, 316A-316B, 316-317, 318A-318B, 318-319, 320A-320B, 320-321, 321A-324B, 324-327, 328A-328B, 328-329, 336-337, 348A-348B, 364-367, 369, 406A
N.3.B: use strategies to develop fluency with basic number relationships (9 X 9) of multiplication and division	SE/TE: 258I-258J, 260A-260B, 260-261, 262A-262B, 262-265, 267, 274, 275, 276A-276B, 276-279, 280A-280B, 280-281, 282A-282B, 282-283, 286A-286B, 286-287, 288A-288B, 288-291, 292A-292B, 292-293, 296, 297, 300-301, 302-303, 304, 306-309, 310-313, 314I-314J, 314-315, 316A-316B, 316-317, 318A-318B, 318-319, 320A-320B, 320-323, 324A-324B, 324-327, 328A-328B, 328-329, 335, 336, 337, 340-341, 342A-342B, 342-343, 345, 348A-348B, 350, 351, 352-353, 354-355, 356-357, 358, 360-363, 364-367, 369, 370A-370B, 370-371, 372A-372B, 372-373, 384A-384B, 384-385, 386A-386B, 386-387, 388A-388B, 388-389, 390A-390B, 390-391,

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Continued	392A-392B, 392-393, 394, 395, 396A-396B, 396-397, 402A-402B, 402-403, 408, 409, 412-413, 414-415, 418-421, 422-425, 443, 449, 473, 610-611, 670
N.3.C: apply and describe the strategy used to compute up to 3-digit addition or subtraction problems	SE/TE: 64-65, 66A-66B, 66-69, 70A-70B, 70-71, 72A-72B, 72-73, 74-75, 76A-76B, 76-77, 78, 79, 80A-80B, 80-81, 82A-82B, 82-85, 92, 93, 94A-94B, 94-95, 96A-96B, 96-97, 101, 103, 104A-104B, 106, 107, 108-109, 110-111, 112-113, 114, 116-119, 120-123, 124I-124J, 124-125, 126A-126B, 126-127, 128A-128B, 128-131, 132A-132B, 132-135, 136A-136B, 136-137, 143, 144, 145, 147, 148A-148B, 148-149, 150A-150B, 150-151, 152A-152B, 152-155, 156A-156B, 156-157, 158, 159, 165, 166A-166B, 166-167, 169, 170A-170B, 172-173, 176-177, 178-179, 182-185, 186-189, 195, 248, 273, 283, 335, 339, 345, 358, 368, 401, 403, 427, 449, 453, 486, 537, 539, 631, 637
N.3.D: estimate and justify sums and differences of whole numbers	SE/TE: 64I-64J, 86A-86B, 86-89, 90A-90B, 90-91, 92, 93, 95, 98A-98B, 98-101, 102, 104B, 105, 106, 107, 109, 111, 112-113, 114, 118, 122-123, 125, 127, 131, 145, 152A, 160A-160B, 160-161, 165, 182-185, 189
N.3.E: Missouri has no content for this Expectation at this grade	
A: Algebraic Relationships	
A.1: Understand patterns, relations and functions	
A.1.A: extend geometric (shapes) and numeric patterns to find the next term	SE/TE: 8A-8B, 8-9, 24A-24B, 24-27, 51, 52, 55, 58, 115, 135, 147, 174, 180, 191, 249, 259, 277, 280-281, 282, 286, 288, 299, 301, 303, 305, 307-308, 311, 319, 330-331, 332A-332B, 332-335, 336, 337, 339, 340A-340B, 340-341, 344A-344B, 344-345, 350, 351, 352-353, 354-355, 356-357, 359, 361-363, 364-365, 401, 402A-402B, 402-403, 417, 443, 464B, 492, 505, 553, 609, 612A-612B, 612-615, 618A-618B, 618-621, 641, 669, 685, 695
A.1.B: represent patterns using words, tables or graphs	SE/TE: 24B, 24-25, 58, 115, 147, 259, 270A-270B, 270-273, 279, 280, 282, 288, 299, 301, 303, 305, 307-308, 311, 314J, 315, 317, 330-331, 332A-332B, 332-335, 336, 337, 340A-340B, 340-341, 344A-344B, 344-345, 350, 351, 352-353, 354, 356-357, 359, 361-363, 366-367, 401, 402A-402B, 402-403, 417, 437-438, 447, 553, 588A-588B, 588-589, 609, 669, 685, 695
A.1.C: Missouri has no content for this Expectation at this grade	
A.1.D: Missouri has no content for this Expectation at this grade	

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A.1.E: Missouri has no content for this Expectation at this grade	
A.2: Represent and analyze mathematical situations and structures using algebraic symbols	
A.2.A: using all operations, represent a mathematical situation as an expression or number sentence	<p>Throughout the chapters devoted to developing students' skills in performing operations on numbers, students write number sentences, expressions, and rules to represent mathematical situations described in words, pictures, and tables.</p> <p>Sample References:</p> <p>SE/TE: 70A-70B, 70-71, 76A-76B, 76-77, 168A-168B, 168-169, 181, 260A-260B, 260-261, 262B, 262, 264-265, 266A-266B, 266-267, 273, 274, 276, 281, 284B, 284-285, 286A, 286-287, 291, 301, 302-303, 305, 306, 310-311, 319, 320B, 320-321, 324B, 324-325, 343, 346, 348B, 350, 351, 356-357, 384^a-384B, 384-385, 390-391, 392-393, 395, 404A-404B, 404-405, 409, 410-411, 413, 414-415, 425, 431, 439, 473, 487</p>
A.2.B: use the commutative, distributive and associative properties for basic facts of whole numbers	<p>SE/TE: 66A-66B, 66-69, 70A-B, 70-71, 78, 79, 80A-80B, 80-81, 110, 115, 116, 120, 262A-262B, 263-264, 293, 300, 306, 320A-320B, 320-322, 342A-342B, 342-343, 350, 351354-355356-357, 362, 367, 630A-360B, 630-631, 650A-650B, 650-651</p>
A.2.C: Missouri has no content for this Expectation at this grade	
A.2.D: Missouri has no content for this Expectation at this grade	
A.3: Use mathematical models to represent and understand quantitative relationships	
A.3.A: model problem situations, including multiplication with objects or drawings	<p>SE/TE: 140A-140B, 140-143, 179, 183, 187, 258-259, 260A-260B, 260-261, 266A-266B, 266-267, 268-269, 273, 274, 275, 276A-276B, 276-277, 280A-280B, 280-281, 282A-282B, 282, 284B, 284-285, 286A, 286-287, 290, 293, 294A-294B, 294-295, 297, 300, 302-303, 306-307, 309, 310-311, 314I, 314, 316A, 316, 318A-318B, 318, 320A-320B, 320-322, 324A-324B, 324-325, 327, 338A, 342, 356-357, 358, 360-361, 363, 368I-368J, 369, 370A-370B, 370-371, 372B, 372-373, 374-377, 382, 383, 384-385, 386B, 390A-390B, 392A-392B, 394-395, 398A-398B, 398-399, 402B, 406B, 409, 412-413, 414-415, 416, 418-419, 421, 610I, 626A-626B, 626-629, 631, 632B, 632, 658A-658B, 663, 664-665, 666-667, 671, 675, 686-687, 688A-688B, 688</p>

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A.4: Analyze change in various contexts	
A.4.A: describe quantitative change, such as students growing two inches in a year	SE/TE: 24B, 24-25, 58, 115, 259, 270A-270B, 270-273, 279, 280, 282, 288, 299, 301, 303, 305, 307-308, 311, 314J, 315, 317, 330-331, 332A, 332-335, 336, 337, 340A-340B, 340-341, 344A-344B, 344-345, 350, 351, 352-353, 354, 356-357, 359, 361-363, 366-367, 401, 402A-402B, 402-403, 417, 669, 685, 695
G: Geometric and Spatial Relationships	
G.1: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships	
G.1.A: compare and analyze 2- dimensional shapes by describing their attributes (circle, rectangle, rhombus, trapezoid, triangle)	SE/TE: 114, 180, 248, 304, 358, 426I, 426-427, 428A-428B, 428-431, 432A-432B, 432-433, 440, 441, 442A-442B, 442-443, 444A-444B, 444-445, 446A-446B, 446-449, 450A-450B, 450-453, 454A-454B, 454-455, 456A-456B, 456-459, 460A-460B, 460-461, 462, 463, 464A-464B, 464-467, 468A-468B, 468-471, 472A-472B, 472-473, 474A-474B, 474-475, 476-477, 478, 479, 480-481, 482-483, 484-485, 486, 488-491, 492-495, 552, 587, 639, 668
G.1.B: Missouri has no content for this Expectation at this grade	
G.1.C: predict the results of putting together or taking apart 2- and 3- dimensional shapes	SE/TE: 449, 454B, 458, 465, 468B, 468-471, 472A-472B, 472-473, 474B, 476B, 477, 478, 479, 480-481, 483, 485, 491, 492, 533, 560
G.2: Specify locations and describe spatial relationships using coordinate geometry and other representational systems	
G.2.A: describe location using common language and geometric vocabulary (forward, back, left, right, north, south, east, west)	SE/TE: 218A-218B, 218-221, 244, 246, 487
G.3: Apply transformations and use symmetry to analyze mathematical situations	
G.3.A: determine if two objects are congruent through a slide, flip or turn	SE/TE: 456A-456B, 456-459, 462, 463, 483, 485, 490, 494
G.3.B: Missouri has no content for this Expectation at this grade	
G.3.C: identify lines of symmetry in polygons	SE/TE: 460A-460B, 460-461, 467, 477, 483, 484, 490, 494
G.4: Use visualization, spatial reasoning and geometric modeling to solve problems	
G.4.A: Missouri has no content for this Expectation at this grade	
G.4.B: Missouri has no content for this Expectation at this grade	
M: Measurement	
M.1: Understand measurable attributes of objects and the units, systems and processes of measurement	
M.1.A: identify, justify and use the appropriate unit of measure (linear, time, weight)	SE/TE: 114, 180, 190I, 198A-198B, 198-199, 201, 202, 203, 242-243, 244, 246-247, 250, 254, 267, 358, 416, 426J, 464A-464B, 464-467, 468B, 471, 485, 491, 495, 496J, 532A-532B, 532-533, 534A-534B, 534-535, 536A-536B, 536-537,

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Continued	538A-538B, 538-539, 540, 544, 545, 546, 549, 550-551, 556-557, 560-561, 563, 582A-582B, 582-583, 584A-584B, 584-587, 590-591, 592, 593, 594-595, 597, 604-605, 607-609, 636B, 668, 680A-680B, 680-683, 684A-684B, 684-685, 690A-690B, 690-693, 694A-694B, 694-695, 698, 699
M.1.B: Missouri has no content for this Expectation at this grade	
M.1.C: tell time to the nearest five minutes	SE/TE: 180, 190, 192A-192B, 192-195, 196A-196B, 196-197, 202, 203, 242-243, 246-247, 250, 254, 416, 600
M.1.D: determine change from \$5.00 and add and subtract money values to \$5.00	SE/TE: 40A-40B, 40-41, 46, 47, 51, 53, 55, 59, 63, 157, 162A-162B, 162-165, 180, 304, 312, 391, 486
M.2: Apply appropriate techniques, tools and formulas to determine measurements	
M.2.A: use a referent for measures to make comparisons and estimates	SE/TE: 238B, 304, 358, 496J, 535, 560, 562J, 582B, 582-583, 585, 592, 593, 599, 600, 609, 668, 678I, 682, 693, 694
M.2.B: Missouri has no content for this Expectation at this grade	
M.2.C: determine the perimeter of polygons	SE/TE: 114, 358, 426J, 464A-464B, 464-467, 468B, 471, 475, 476B, 476, 478, 479, 480-481, 485, 486, 491, 495, 533, 552, 600, 636B, 668
M.2.D: Missouri has no content for this Expectation at this grade	
M.2.E: Missouri has no content for this Expectation at this grade	
D: Data and Probability	
D.1: Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them	
D.1.A: design investigations to address a given question	SE/TE: 190J, 226A-226B, 228A-228B, 231, 232A-232B, 236A-236B
D.1.B: Missouri has no content for this Expectation at this grade	
D.1.C: read and interpret information from line plots and graphs (bar, line, pictorial)	SE/TE: 95, 115, 161, 181, 208A-208B, 208-211, 212A-212B, 212-215, 216-217, 218A-218B, 218-221, 222A-222B, 222-223, 224, 225, 226A-226B, 226-227, 228A-228B, 228-231, 232A-232B, 232-233, 234-235, 236A-236B, 236-237, 245, 246-247, 249, 251-253, 255-257, 261, 285, 305, 312, 347, 359, 400, 417, 487, 553, 591, 601, 617, 654, 669
D.2: Select and use appropriate statistical methods to analyze data	
D.2.A: describe the shape of data and analyze it for patterns	SE/TE: 115, 181, 211, 268-269, 270A-270B, 270-273, 305, 487, 553, 601
D.2.B: Missouri has no content for this Expectation at this grade	
D.2.C: Missouri has no content for this Expectation at this grade	

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D.3: Develop and evaluate inferences and predictions that are based on data	
D.3.A: discuss events related to students' experiences as likely or unlikely	SE/TE: 181, 359, 553, 601, 678J, 700A-700B, 700-701, 702A-702B, 702-703, 704A-704B, 704-707, 708A-708B, 712, 713, 717, 718-719, 721, 725, 729
D.3.B: Missouri has no content for this Expectation at this grade	
D.4: Understand and apply basic concepts of probability	
D.4.A: Missouri has no content for this Expectation at this grade	
D.4.B: Missouri has no content for this Expectation at this grade	

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to the
Missouri Mathematics Grade-Level Expectations
Grade 4

Missouri Mathematics Grade-Level Expectations – Grade 4	Scott Foresman – Addison Wesley Mathematics
GRADE 4	
N: Number and Operations	
N.1: Understand numbers, ways of representing numbers, relationships among numbers and number systems	
N.1.A: read, write and compare and whole numbers less than 100,000	SE/TE: 2I-2J, 2-3, 4A-4B, 4-7, 8A-8B, 8-9, 10A-10B, 10-11, 14, 15, 16A-16B, 16-19, 20A-20B, 20-21, 22A-22B, 22-23, 26, 27, 29, 40A-40B, 40-41, 44-45, 46, 48-49, 52-53, 56-57, 67, 68, 71, 72A-72B, 72-73, 79, 81, 85, 97, 108, 111, 112, 114-115, 127, 134-135, 147, 149, 178, 244, 302, 354, 422, 550, 589, 691, 722, 725, 726
N.1.B: use models, benchmarks (0, 1/2 and 1) and equivalent forms to judge the size of fractions	SE/TE: 498I-498J, 499, 500A-500B, 500-501, 502A-502B, 502-503, 504A-504B, 504-507, 508A-508B, 508-509, 510, 514, 515, 516A-516B, 516-519, 520A-520B, 520-521, 522A-522B, 522-523, 524A-524B, 524-527, 528, 529, 530A-530B, 530-533, 534A-534B, 534-535, 536A-536B, 537, 538A-538B, 538-539, 540A-540B, 540-541, 542, 543, 544-545, 546-547, 548-549, 550, 552-555, 556-559, 560, 562A-562B, 564A-564B, 564, 567, 568A-568B, 568, 573, 574B, 574, 577, 578A, 578, 581, 563, 624A-624B, 624-627, 629, 634, 635, 672, 674, 676, 678, 682, 687
N.1.C: recognize equivalent representations for the same number and generate them by decomposing and composing numbers	SE/TE: 2, 4A-4B, 4-7, 8B, 9, 10A-10B, 10-11, 14-15, 16A, 18, 19, 22A-22B, 22-23, 26, 27, 28B, 28-29, 31, 33, 40A-40B, 43, 46, 48-49, 52-53, 56, 58, 62B, 62-63, 64A-64B, 64-65, 71, 81, 86, 90-91, 123, 124B, 124-127, 131, 132A-132B, 132-134, 137, 145, 176, 180, 257, 262A-262B, 262-263, 264A-264B, 267, 269, 270A-270B, 270, 292A, 304, 329
N.1.D: classify and describe numbers by their characteristics, including odd, even, multiples and factors	SE/TE: 124A-124B, 124-125, 127, 128A-B, 128-131, 134, 146A, 174, 255, 256A-256B, 256-257, 314A-B, 314-315, 402A-B, 402-403, 407, 411, 414, 415, 419, 420-421, 423, 427, 430, 467
N.2: Understand meanings of operations and how they relate to one another	
N.2.A: represent and recognize multiplication and related division using various models, including equal intervals on the number line, equal size groups, distributive property, etc.	SE/TE: 122I-122J, 123, 124A-124B, 124-127, 128A-128B, 128-131, 132A-132B, 132-135, 136A-136B, 136-137, 145, 146A-146B, 146-147, 148A-148B, 148-149, 150A-150B, 150-151, 152A-152B, 152-153, 154A-154B, 154-155, 158, 159, 164A-164B, 164-165, 166A-166B, 166-167, 168A-168B, 168-169, 170, 171, 174, 177, 180-181, 184, 254J, 254, 256B, 258B, 264A-264B, 264-267, 270B, 270, 273, 288B, 292A-292B,

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Continued	300, 305, 309, 312J, 320A-320B, 320-325, 329, 330, 332, 340B, 344A, 352-353, 357, 364I, 366B, 368, 372A-372B, 372, 374A-374B, 374-377, 384B, 386B, 386, 390A-390B, 392A-392B, 392, 394-395, 396-398, 412A-412B, 420, 424
N.2.B: describe the effects of multiplying and dividing whole numbers as well as the relationship between the two operations	SE/TE: 122I-122J, 124A-124B, 124-127, 128A-128B, 128-131, 132A-132B, 132-135, 136A-136B, 136-137, 143, 144, 145, 146A-146B, 146-147, 148A-148B, 148-149, 150A-150B, 150-151, 152A-152B, 152-153, 154A-154B, 154-155, 158, 159, 164A-164B, 164-165, 166A-166B, 166-167, 168A-168B, 168-169, 170, 171, 174-175, 176-177, 178, 180-183, 184-187, 254I-254J, 254-255, 256A-256B, 256-257, 258A-258B, 258-261, 262A-262B, 262-263, 264A-264B, 264-267, 268, 269, 270A-270B, 270-273, 274A-274B, 274-275, 281, 282A-282B, 282-283, 284, 285, 287, 288A-288B, 288-289, 292A-292B, 292-293, 294, 295, 298-299, 300-301, 304-311, 312I-312J, 313, 314A-314B, 314-315, 316A-316B, 316-319, 320A-320B, 320-323, 330, 331, 332A-332B, 332-335, 336A-336B, 336-337, 338A-338B, 338-339, 344A-344B, 344-345, 346-347, 350-351, 352-353, 356-358, 360-363, 364I-364J, 364-365, 366A-366B, 366-367, 368A-368B, 368-371, 372A-372B, 372-373, 374A-374B, 374-377, 378, 379, 380A-380B, 380-383, 384A-384B, 384-385, 386A-386B, 386-389, 390A-390B, 390-391, 396A-396B, 396-399, 400, 401, 402A-402B, 402-403, 404A-404B, 404-405, 406A-406B, 406-407, 408A-408B, 408-411, 412A-412B, 412-413, 418-419, 420-421, 424-431
N.2.C: Missouri has no content for this Expectation at this grade	
N.2.D: Missouri has no content for this Expectation at this grade	
N.3: Compute fluently and make reasonable estimates	
N.3.A: represent a mental strategy used to compute a given multiplication problem (up to 2-digit by 2-digit multiple of)	SE/TE: 122I-122J, 123, 124A-124B, 124-127, 128A-128B, 128-131, 132A-132B, 132-135, 136A-136B, 136-137, 143, 144, 145, 148A-148B, 148-149, 151, 154A-154B, 154-155, 158, 159, 174, 176-177, 178, 180-183, 184-187, 255, 256A-256B, 256-257, 262A-262B, 262-263, 267, 289, 300-301, 304, 306, 308, 312I, 314A-314B, 314-315, 319, 330, 331, 338A-338B, 338-339, 344B, 351, 352-353, 356, 360, 364
N.3.B: demonstrate fluency with basic number relationships (12 X 12) of multiplication and related division facts	SE/TE: 122I-122J, 124A-124B, 124-127, 128A-128B, 128-131, 132A-132B, 132-135, 136A-136B, 136-137, 143, 144, 145, 146A-146B, 146-147, 148A-148B, 148-149, 150A-150B, 150-151, 152A-152B, 152-153, 154A-154B, 154-155, 158, 159, 164A-164B, 164-165, 166A-166B, 166-167, 168A-168B, 168-169, 170, 171, 174-175, 176-

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Continued	177, 178, 180-183, 184-187, 254-255, 287, 300-301, 364I-364J, 365, 379
N.3.C: apply and describe the strategy used to compute a given multiplication of 2-digit by 2-digit numbers and related division facts	SE/TE: 312I-312J, 314A-314B, 314-315, 319, 320A-320B, 320-323, 329, 330, 331, 332A-332B, 332-335, 337, 339, 344A, 346, 347, 350-351, 352-353, 356-358, 360-363, 374A-374B, 374-376, 378, 379, 380A-380B, 380-383, 386A-386B, 386-389, 390A-390B, 390-391, 393, 399, 400, 401, 406A-406B, 406-407, 408A-408B, 408-411, 414, 415, 418-419, 420-421, 424-431
N.3.D: estimate and justify products of whole numbers	SE/TE: 254I, 258A-258B, 258-261, 263, 296-297, 298-299, 300-301, 304-305, 308-309, 313, 315, 316A-316B, 316-319, 323, 330, 331, 335, 339, 352-353, 354, 356, 360, 365, 422
N.3.E: Missouri has no content for this Expectation at this grade	
A: Algebraic Relationships	
A.1: Understand patterns, relations and functions	
A.1.A: describe geometric and numeric patterns	SE/TE: 10A-10B, 10-11, 37, 90A-90B, 90-91, 92, 93, 97, 109, 110-111, 113, 116, 120, 128A-128B, 128-131, 136B, 136, 140A-140B, 140-143, 256, 275, 283, 312, 314A, 314, 335, 342-343, 351, 355, 363, 366A-366B, 366-367, 378, 406B, 406, 423, 449, 454, 474B, 475, 641, 677, 680
A.1.B: analyze patterns using words, tables and graphs	SE/TE: 10A-10B, 10-11, 90A-90B, 90-91, 92, 93, 111, 113, 120, 128A-128B, 128-131, 136B, 136, 140A-140B, 140-143, 256, 303, 314A, 314, 342-343, 355, 363, 366A-366B, 366-367, 406, 423, 474B, 475, 641, 647, 648-649, 680
A.1.C: Missouri has no content for this Expectation at this grade	
A.1.D: Missouri has no content for this Expectation at this grade	
A.1.E: Missouri has no content for this Expectation at this grade	
A.2: Represent and analyze mathematical situations and structures using algebraic symbols	
A.2.A: using all operations, represent a mathematical situation as an expression or number sentence	Throughout the chapters devoted to developing students' skills in performing operations on numbers, students write number sentences, expressions, and rules to represent mathematical situations described in words, pictures, and tables. Sample References: SE/TE: 94A-94B, 94-95, 96A-96B, 96-97, 98A-98B, 98-99, 100A-100B, 100-101, 104, 105, 109, 110-111, 113, 117, 121, 123, 160A-160B, 160-163, 166A-166B, 166-167, 170, 171, 173, 175, 179, 183, 187, 191, 195, 261, 263, 281, 335, 337, 373, 383, 389, 396A-396B, 396-398, 465, 469, 566, 571, 581, 690A-690B, 690-691, 692A-692B, 692-695, 698, 699, 722, 724-725, 727, 728, 731

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A.2.B: use the commutative, distributive and associative properties of addition and multiplication for multidigit numbers	SE/TE: 62-63, 129-130, 132A-132B, 132-134, 136, 145, 148A-B, 148-149, 158, 159, 174, 176, 181, 185, 288A-288B, 288-289, 292B
A.2.C: Missouri has no content for this Expectation at this grade	
A.2.D: Missouri has no content for this Expectation at this grade	
A.3: Use mathematical models to represent and understand quantitative relationships	
A.3.A: model problem situations, using representations such as graphs, tables or number sentences	SE/TE: 101, 140A-140B, 140-142, 166B, 167, 173, 175, 177, 179, 181-183, 185-187, 188J, 189, 206A-206B, 206-207, 208A-208B, 208-211, 212A, 212-215, 216A-216B, 216-219, 220-221, 222A-222B, 222-223, 224, 225, 228-229, 230A-230B, 230-231, 232A-232B, 232-233, 234-235, 236, 237, 238-239, 241, 242-243, 245, 247-249, 250-253, 261, 303, 396A-396B, 396-399, 400, 401, 415, 423, 426, 430, 536A-536B, 536-537, 549, 551, 555, 559, 690A-690B, 690-691, 692A-692B, 692-695
A.4: Analyze change in various contexts	
A.4.A: describe mathematical relationships in terms of constant rates of change	SE/TE: 692A-692B, 692-695, 698, 699, 724, 727, 728, 731
G: Geometric and Spatial Relationships	
G.1: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships	
G.1.A: name and identify properties of 1-, 2- and 3-dimensional shapes and describe the attributes of 2- and 3-dimensional shapes using appropriate geometric vocabulary (rectangular prism, cylinder, pyramid, sphere, cone, parallelism, perpendicularity)	SE/TE: 302, 342B, 354, 432I-432J, 432, 434A-434B, 434-437, 438A-438B, 438-439, 440A-440B, 440-443, 444A-444B, 444-447, 448A-448B, 448-449, 450, 451, 452A-452B, 452-455, 456A-456B, 456-457, 458A-458B, 458-459, 460A-460B, 460-461, 462, 463, 464A-464B, 464-467, 468A-468B, 468-471, 472-473, 474A-474B, 474-475, 476A-476B, 476-477, 478A-478B, 478-479, 480, 481, 482-483, 484-485, 486-487, 488, 490-493, 494-497, 499, 548, 550, 612, 676, 726
G.1.B: Missouri has no content for this Expectation at this grade	
G.1.C: describe the results of subdividing, combining and transforming shapes	SE/TE: 432I-432J, 434A, 435, 437, 447, 452B, 452-455, 456A-456B, 456-457, 458B, 462, 463, 467, 468A-468B, 468-471, 475, 476B, 476-477, 478B, 478-479, 482-483, 484-485, 486-487, 488, 494, 496-497, 499, 548, 550, 676, 726
G.2: Specify locations and describe spatial relationships using coordinate geometry and other representational systems	
G.2.A: describe movement using common language and geometric vocabulary (forward, back, left, right, north, south, east, west)	SE/TE: 212A-212B, 212-215, 216A-216B, 216-219, 222A, 223, 224, 225, 229, 232, 234B, 238-239, 240-241, 242, 243, 245, 248-249, 252, 355, 686, 692A-692B, 692-695, 698, 699, 709, 722, 724, 727, 728, 731
G.3: Apply transformations and use symmetry to analyze mathematical situations	
G.3.A: predict the results of sliding/ translating, flipping/ reflecting or turning/ rotating around the center point of a polygon	SE/TE: 452B, 452-455, 462, 463, 485, 486-487, 491, 495, 676

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G.3.B: Missouri has no content for this Expectation at this grade	
G.3.C: create a figure with multiple lines of symmetry and identify the lines of symmetry	SE/TE: 456A-B, 456-457, 459, 462, 463, 467, 477, 478B, 478-479, 485, 486-487, 492, 495
G.4: Use visualization, spatial reasoning and geometric modeling to solve problems	
G.4.A: given the picture of a prism, identify the shapes of the faces	SE/TE: 434A-434B, 434-437, 439, 450, 451, 460A, 460-461, 484, 490, 492, 494, 676
G.4.B: Missouri has no content for this Expectation at this grade	
M: Measurement	
M.1: Understand measurable attributes of objects and the units, systems and processes of measurement	
M.1.A: identify and justify the unit of linear measure including perimeter and (customary metric)	SE/TE: 422, 464A-464B, 464-467, 470-471, 472-473, 474A-474B, 474-475, 477, 478A, 480, 481, 482-483, 487, 493, 496-497, 588A-588B, 588-589, 590A-590B, 590-591, 593, 596B, 596-599, 600B, 600-601, 602B, 602-603, 604, 605, 606, 609, 610, 612, 616, 620, 622J, 646, 648A, 648, 651, 652A-652B, 652-653, 658A-658B, 658-661, 666B, 666-667, 668, 669, 671, 673, 674-675, 676, 680-681, 684-685
M.1.B: identify equivalent linear measures within a system of measurement	SE/TE: 588B, 588, 596B, 596-599, 600B, 601, 602B, 602-603, 604, 605, 606, 609, 611, 617, 621, 652B, 652-653, 658A-658B, 658-661, 666B, 667, 668, 669, 680-681, 685
M.1.C: tell time to the nearest minute	SE/TE: 190A-190B, 190-191, 192A-192B, 192-195, 202, 203, 242-243, 244, 246, 250, 354
M.1.D: determine change from \$10.00 and add and subtract money values to \$10.00	SE/TE: 32A-32B, 32-33, 37, 42, 43, 47, 50, 55, 59, 64B, 329
M.2: Apply appropriate techniques, tools and formulas to determine measurements	
M.2.A: select and use benchmarks to estimate measurements (linear, capacity, weight)	SE/TE: 588-589, 591, 592B, 592, 594A-B, 594, 600A-B, 600-601, 604, 607, 611, 617, 621, 623, 652B, 654A, 654, 656A, 669, 674, 676
M.2.B: select and use benchmarks to estimate measurements of 0-, 45- (acute), 90- (right) greater than 90 (obtuse) degree angles	SE/TE: 441-443
M.2.C: determine and justify areas of polygons and non-polygonal regions imposed on a rectangular grid	SE/TE: 468A-B, 468-471, 480, 481, 482-483, 487, 488, 497
M.2.D: Missouri has no content for this Expectation at this grade	
M.2.E: Missouri has no content for this Expectation at this grade	
D: Data and Probability	
D.1: Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them	
D.1.A: collect data using observations, surveys and experiments	SE/TE: 230A-B, 230-231, 236, 237, 243, 709, 710A, 710
D.1.B: Missouri has no content for this Expectation at this grade	
D.1.C: create tables or graphs to represent categorical and numerical data (including line plots)	SE/TE: 140A-140B, 140-143, 188J, 189, 204A-204B, 204-205, 206A-206B, 206-207, 208A-508B, 208-211, 212A-212B, 212-215, 216A-216B, 216-219, 220-221, 222A-222B, 222-223, 224, 225, 232A-232B, 232-233, 238-239, 240-

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Continued	241, 242-243, 245, 247-249, 251-253, 303, 324-325, 326A-326B, 326-329, 536A-536B, 536-537, 704A-704B, 704-705
D.2: Select and use appropriate statistical methods to analyze data	
D.2.A: describe important features of the data set	SE/TE: 13, 188J, 189, 204A-204B, 204-205, 206A-206B, 206-207, 208A-208B, 208-211, 212A-212B, 212-215, 216A-216B, 216-221, 222A-222B, 222-223, 224, 225, 226A-226B, 226-229, 230A-230B, 230-231, 232A-232B, 232-233, 238-239, 240-241, 242-243, 245, 247-249, 251-253, 303, 337, 343, 355, 399, 401, 404B, 405, 415, 423, 536A-536B, 536-537, 613, 663, 677
D.2.B: Missouri has no content for this Expectation at this grade	
D.2.C: Missouri has no content for this Expectation at this grade	
D.3: Develop and evaluate inferences and predictions that are based on data	
D.3.A: given a set of data, propose and justify conclusions that are based on the data	SE/TE: 13, 188J, 189, 204A-204B, 204-205, 206A-206B, 206-207, 208A-208B, 208-211, 212A-212B, 212-215, 216A-216B, 216-221, 222A-222B, 222-223, 224, 225, 226A-226B, 226-229, 230A-230B, 230-231, 232A-232B, 232-233, 238-239, 240-241, 242-243, 245, 247-249, 251-253, 257, 303, 337, 343, 355, 399, 401, 415, 423, 536A-536B, 536-537, 613, 663, 677, 710A-710B, 710-711
D.3.B: Missouri has no content for this Expectation at this grade	
D.4: Understand and apply basic concepts of probability	
D.4.A: Missouri has no content for this Expectation at this grade	
D.4.B: Missouri has no content for this Expectation at this grade	

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to the
Missouri Mathematics Grade-Level Expectations
Grade 5

Missouri Mathematics Grade-Level Expectations – Grade 5	Scott Foresman – Addison Wesley Mathematics
GRADE 5	
N: Number and Operations	
N.1: Understand numbers, ways of representing numbers, relationships among numbers and number systems	
N.1.A: read, write and compare whole numbers less than 1,000,000, unit fractions and decimals to hundredths (including location on the number line)	SE/TE: 2I, 8A-8B, 8-11, 12A-12B, 12-13, 17, 20, 21, 27, 39, 41, 44A, 49, 53, 55, 56, 60, 87, 167, 237, 248, 259, 316, 392I-392J, 393, 394A-394B, 394-397, 398A-398B, 398-399, 400A-400B, 400-401, 402A-402B, 402-403, 404A-404B, 404-405, 408, 409, 410A-410B, 410-411, 412A-412B, 412-413, 416A-416B, 416-417, 418A-418B, 418-419, 420A-420B, 420-423, 424, 425, 426B, 426-427, 431, 434B, 440, 441, 444-445, 446, 447, 448, 450, 452, 454-457, 458-459, 460B, 545, 569, 582, 686, 690
N.1.B: recognize and generate equivalent forms of commonly used fractions and decimals	SE/TE: 2I, 8A-8B, 12B, 13, 38A-38B, 38, 40A-40B, 40, 88A, 92A-92B, 92-93, 97, 99, 124, 190, 337, 400A-400B, 400-401, 403, 408, 409, 410A-410B, 410-411, 412A-412B, 412-413, 415, 416A-416B, 416-417, 419, 424, 425, 426A-426B, 426-429, 430A-430B, 430-431, 437, 440, 441, 443, 444-445, 446-447, 448, 453, 456-457, 458I, 458-459, 460B, 462A-462B, 462-463, 466A-466B, 466-469, 472A-472B, 478-479, 500B, 500, 549, 603, 644J, 644-645, 668A-668B, 668-669, 670A-670B, 670-671, 678, 679, 683, 684-685, 693, 740
N.1.C: recognize equivalent representations for the same number and generate them by decomposing and composing numbers,	SE/TE: 4-5, 13, 14B, 14-17, 38A-38B, 38, 40A-40B, 40, 50, 52-53, 57, 60-61, 66B, 69, 70A-70B, 70-71, 72A-72B, 72, 77, 85, 88A, 97, 99, 110A, 116, 131, 148B, 190, 207, 265, 535
N.1.D: describe numbers according to their characteristics, including whole number common factors and multiples, prime or composite, and square numbers	SE/TE: 64I, 75, 103, 155, 162A-162B, 162-163, 164A-164B, 164-167, 170, 171, 186, 188-189, 190, 194, 198, 214B, 248, 273, 305, 382, 390, 393, 414A-414B, 414-415, 416A-416B, 416-417, 419, 424, 425, 426A, 437, 445, 452, 456, 464B, 464-465, 469, 470, 471, 501, 514-515, 516, 517, 518-519, 522, 583, 615, 636
N.2: Understand meanings of operations and how they relate to one another	
N.2.A: represent and recognize division using various models, including quotative and partitive	SE/TE: 132A-B, 132-135, 136A-B, 136-137, 141, 146, 147, 148A-B, 148-151, 156A-B, 170, 171, 175, 192, 196, 214A, 221, 224A, 234A, 234
N.2.B: describe the effects of addition and subtraction on fractions and decimals	SE/TE: 38A-38B, 38-39, 40A-40B, 40-41, 46, 47, 50, 52, 59, 63, 67, 460A-B, 460-461, 462A-B, 462-463, 464A, 465, 466A-B, 466-468, 470-471, 472A-B, 472-473, 475, 476A-B, 476-477, 478A-B, 478-481, 487, 488-489, 493, 512-513, 514-515, 516-517, 518-520, 522-523

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N.2.C: Missouri has no content for this Expectation at this grade	
N.2.D: Missouri has no content for this Expectation at this grade	
N.3: Compute fluently and make reasonable estimates	
N.3.A: describe a mental strategy used to compute a given division problem, where the quotient is a multiple of 10 and the divisor is a 1-digit number (e.g., $350 / 7$)	SE/TE: 136A-B, 136-137, 141, 146, 147, 151, 155, 189, 192, 196, 201, 203, 222, 250
N.3.B: demonstrate fluency with efficient procedures for adding and subtracting decimals and fractions (with unlike denominators) and division of whole numbers	SE/TE: 38A-38B, 38-39, 40A-40B, 40-41, 46, 47, 50, 52, 59, 63, 67, 130, 136A-B, 136-137, 141, 146, 147, 149-151, 152A-B, 152-155, 156A-B, 156-157, 158A-B, 158-159, 160A-B, 160-161, 163, 170, 171, 173, 180A, 188-189, 193-194, 197-198, 200I-J, 202A-B, 202-203, 212, 213, 214A-B, 214-217, 218A-B, 218-221, 222A-B, 222-223, 224A-B, 224-225, 228, 229, 230A-B, 230-231, 232A-B, 232-233, 234A-B, 234-237, 240, 241, 244-245, 246-247, 250-253, 254-257, 261, 265, 287, 305, 316, 355, 392, 411, 431, 460A-B, 460-461, 462A-B, 462-463, 464A, 465, 466A-B, 466-468, 470-471, 472A-B, 472-473, 475, 476A-B, 476-477, 478A-B, 478-481, 487, 488-489, 493, 512-513, 514-515, 516-517, 518-520, 522-523, 653, 686
N.3.C: apply and describe the strategy used to compute a division problem up to a 3- digit by 2-digit and addition and subtraction of fractions and decimals	SE/TE: 38A-38B, 38-39, 40A-40B, 40-41, 46, 47, 50, 52, 59, 63, 67, 130, 136A-B, 136-137, 141, 146, 147, 149-151, 152A-B, 152-155, 156A-B, 156-157, 158A-B, 158-159, 160A-B, 160-161, 163, 170, 171, 173, 180A, 188-189, 193-194, 197-198, 200I-J, 202A-B, 202-203, 212, 213, 214A-B, 214-217, 218A-B, 218-221, 222A-B, 222-223, 224A-B, 224-225, 228, 229, 230A-B, 230-231, 232A-B, 232-233, 234A-B, 234-237, 240, 241, 244-245, 246-247, 250-253, 254-257, 261, 265, 287, 305, 316, 355, 392, 411, 431, 460A-B, 460-461, 462A-B, 462-463, 464A, 465, 466A-B, 466-468, 470-471, 472A-B, 472-473, 475, 476A-B, 476-477, 478A-B, 478-481, 487, 488-489, 493, 512-513, 514-515, 516-517, 518-520, 522-523, 653, 686
N.3.D: estimate and justify products, and quotients of whole numbers and sums differences of decimals and fractions	SE/TE: 53, 59, 64I, 68A-68B, 68-69, 71, 75, 82, 83, 91, 93, 94, 98, 99, 118-119, 120, 124, 127, 130I-130J, 138A-138B, 138-141, 146, 147, 154, 180B, 188, 189, 190, 192-194, 196, 200I, 201, 204A-204B, 204-207, 212, 213, 214A-214B, 214-215, 218A-218B, 221, 225, 233, 236, 247, 250-252, 254, 279, 287, 290-291, 335, 402A-B, 402-403, 405, 408, 409, 446, 450, 454, 499, 511, 513, 514-515, 516, 520, 524, 582, 624A-624B, 624-625, 628, 633, 635, 640, 643, 698, 703
N.3.E: Missouri has no content for this Expectation at this grade	

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A: Algebraic Relationships	
A.1: Understand patterns, relations and functions	
A.1.A: make and describe generalizations about geometric and numeric patterns	SE/TE: 14A-14B, 14-17, 20, 21, 55, 66A-66B, 66-67, 69, 84A-84B, 84-85, 94A-94B, 95, 98, 106A-106B, 106-107, 121, 126, 136A-136B, 136-137, 141, 142-143, 144A-144B, 144-145, 146, 147, 151, 157, 179, 187, 189, 192, 196, 201, 202, 230, 237, 238A, 241, 243, 317, 350, 352A-352B, 353-355, 356B, 367, 449, 492, 545, 583, 604, 609, 635, 637, 639, 645, 655, 683, 687, 688-689, 691, 720A-720B, 720-721, 722, 723, 727
A.1.B: represent and analyze patterns using words, tables and graphs	SE/TE: 14A-14B, 14-17, 55, 94A-94B, 98, 106A, 106-107, 125, 136A-136B, 136-137, 141, 142-143, 144A-144B, 144-145, 146, 179, 187, 189, 192, 230, 238A, 241, 243, 350, 352A-352B, 353-355, 356B, 492, 545, 645, 652A-652B, 652-653, 655, 656, 657, 667, 681, 683, 684, 687, 688-689, 691, 694J, 720A-720B, 720-721, 722, 723, 727, 728A-728B, 728-729, 737
A.1.C: Missouri has no content for this Expectation at this grade	
A.1.D: Missouri has no content for this Expectation at this grade	
A.1.E: Missouri has no content for this Expectation at this grade	
A.2: Represent and analyze mathematical situations and structures using algebraic symbols	
A.2.A: using all operations, represent a mathematical situation as an expression or number sentence using a letter or symbol	SE/TE: 71, 87, 97, 100A-100B, 100-103, 104A-104B, 104-105, 106B, 106-107, 108A-108B, 108-109, 112, 113, 114-115, 117, 118-119, 121, 125, 129, 133-135, 137, 176A-176B, 176-179, 182, 183, 187, 191, 195, 203, 207, 210-211, 230-231, 249, 259, 317, 337, 383, 401, 419, 449, 475, 479, 484A-484B, 484-486, 505, 513, 540B, 540, 583, 615, 637, 687, 694I-694J, 694-695, 696B, 696-698, 700A-700B, 700-701, 702A-702B, 702-703, 704-705, 706A-706B, 706-709, 710, 711, 715, 728A-728B, 728-729, 732, 733, 736-737, 738-739, 741, 742-744, 745, 747
A.2.B: use the commutative, distributive and associative properties for fractions and decimals	These properties are introduced with whole numbers but can be applied to all real numbers (including fractions and decimals). SE/TE: 22-25, 66B, 66-67, 70A-70B, 70-71, 75, 82, 83, 116, 120, 126
A.2.C: Missouri has no content for this Expectation at this grade	
A.2.D: Missouri has no content for this Expectation at this grade	
A.3: Use mathematical models to represent and understand quantitative relationships	
A.3.A: model problem situations and draw conclusions, using representations such as graphs, tables or number sentence	SE/TE: 7, 11, 13, 16, 18A-18B, 18-19, 21, 24-25, 27, 28B, 28, 30, 32B, 33, 35, 37, 39, 42B, 43, 44-45, 47, 49, 51, 55, 69, 70B, 71, 74-75, 77, 78-79, 80B, 90, 96, 100, 104B, 106A-106B, 106-107, 109, 110B, 110-111, 112, 113, 115, 118-119,

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Continued	129, 135, 140, 143, 151, 154, 158B, 162B, 169, 176B, 176, 180-181, 182, 183, 191, 195, 199, 203, 214B, 216, 223, 226B, 226-227, 229, 230B, 232B, 233, 236, 238-239, 247, 249, 256, 259, 262A-262B, 262-265, 266A-266B, 266-269, 270A-270B, 270-273, 274-275, 276A-276B, 276-279, 280, 281, 282A-282B, 282-285, 286A-286B, 286-287, 288A-288B, 288-291, 292A-292B, 292-293, 294, 295, 296A-296B, 296-299, 307, 311, 317, 372-373, 383, 405, 406B, 407, 409, 417, 419, 425, 432-433, 434B, 434-437, 438B, 438-439, 440, 441, 442, 447, 449, 453, 457, 469, 482-483, 484A-484B, 484-487, 504B, 505, 506-507, 510-511, 513, 539, 557, 564A-564B, 564-567, 568A-568B, 572B, 572-573, 620B, 621, 623, 626B, 626, 629, 637, 644I, 647, 648A, 652A-652B, 652-653, 654A, 655, 657, 658-659, 660A-660B, 660-661, 662, 664A-664B, 664-665, 666, 667, 672B, 676B, 676-677, 679, 680-681, 687, 691-693, 703, 708, 722, 723, 730-731, 734-735, 741
A.4: Analyze change in various contexts	
A.4.A: identify, model and describe situations with constant or varying rates of change	SE/TE: 44, 51, 90, 107, 154, 158B, 180-181, 201, 216, 221, 225, 238A-238B, 238-239, 243, 438-439, 636, 654A-654B, 654-655, 656, 658-659, 689, 692, 710, 711, 728A-728B, 728-729, 747
G: Geometric and Spatial Relationships	
G.1: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships	
G.1.A: analyze and classify 2- and 3-dimensional shapes by describing the attributes	SE/TE: 80A, 120, 190, 210B, 210-211, 213, 248, 316, 326I-326J, 326-327, 328A-328B, 328-331, 332A-332B, 332-335, 336A-336B, 336-337, 338, 339, 340A-340B, 340-341, 342A-342B, 342-345, 346A-346B, 346-349, 351, 352A-352B, 352-355, 356B, 356-357, 358, 359, 360A-360B, 360-363, 364A-364B, 364-367, 368A-368B, 368-371, 372A-372B, 374, 375, 378-379, 380-381, 382, 384-387, 388-391, 448, 516, 540-541, 542A-542B, 542-545, 546, 547, 548A-548B, 548-549, 550A-550B, 550-551, 552A-552B, 552-553, 554A-554B, 554-555, 558A-558B, 558-559, 560, 561, 563, 571, 572A-572B, 576-577, 578-579, 580-581, 585-586, 588-590, 592-593, 594A-594B, 594-597, 598A-598B, 598-601, 602A-602B, 602-603, 606A-606B, 606-607, 608-609, 610A-610B, 610-613, 618, 619, 625, 629, 632-633, 634, 635, 636, 638-639, 641-642, 647, 662B, 674, 686, 689, 709, 721, 740
G.1.B: Missouri has no content for this Expectation at this grade	

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G.1.C: predict and justify the results of subdividing, combining and transforming shapes	SE/TE: 326I-326J, 343, 351, 352B, 352-355, 359, 367, 379, 387, 391, 392I-392J, 394-397, 398-399, 400A-400B, 400-401, 410A, 410-411, 412A, 413, 416B, 416, 418A, 418, 438A, 444, 446, 450-451, 454-455, 493, 494A, 494, 496A-496B, 496-498, 525, 556, 605, 606A-606B, 606-607, 610B, 610-611, 626B, 633, 640, 662B, 662-663, 675, 689
G.2: Specify locations and describe spatial relationships using coordinate geometry and other representational systems	
G.2.A: use coordinate systems to specify locations, describe paths and find the distance between points along horizontal and vertical lines	SE/TE: 55, 174A-174B, 174-175, 176A-176B, 177-179, 182, 183, 185, 188, 191, 195, 199, 203, 258, 651, 652A-652B, 652-653, 656, 657, 682, 684, 695, 724A-724B, 724-727, 728A-728B, 728-729, 732, 733, 734-735, 737, 739, 741, 744, 747
G.3: Apply transformations and use symmetry to analyze mathematical situations	
G.3.A: predict, draw and describe the results of sliding/ translating, flipping/ reflecting and turning/ rotating around a center point of a polygon	SE/TE: 364A-364B, 364-367, 374, 375, 379, 381, 382, 387, 391, 397, 399, 516, 740
G.3.B: Missouri has no content for this Expectation at this grade	
G.3.C: identify polygons and designs with rotational symmetry	SE/TE: 370
G.4: Use visualization, spatial reasoning and geometric modeling to solve problems	
G.4.A: given a net of a prism or cylinder, identify the 3-dimensional shape	SE/TE: 592I, 598A-598B, 598-601, 602A-602B, 602-603, 608-609, 610A, 632, 634, 635, 638, 641
G.4.B: Missouri has no content for this Expectation at this grade	
M: Measurement	
M.1: Understand measurable attributes of objects and the units, systems and processes of measurement	
M.1.A: identify and justify the unit of measure for area (customary and metric)	SE/TE: 27, 49, 62, 211, 213, 248, 316, 526I-526J, 548A-548B, 548-549, 550B, 550-551, 552A-552B, 552-553, 554A-554B, 554-555, 558B, 558-559, 560, 561, 563, 572B, 576, 579, 580-581, 582, 585-586, 590, 593, 597, 602A-602B, 602-603, 636, 638, 641, 686
M.1.B: identify the equivalent weights and equivalent capacities within a system of measurement	SE/TE: 54, 97, 190, 614A-614B, 614-615, 616A-616B, 616-617, 618, 619, 620A-620B, 620-621, 622A-622B, 622-623, 626B, 628, 629, 639-640, 642-643
M.1.C: Missouri has no content for this Expectation at this grade	
M.1.D: Missouri has no content for this Expectation at this grade	
M.2: Apply appropriate techniques, tools and formulas to determine measurements	
M.2.A: Missouri has no content for this Expectation at this grade	
M.2.B: Missouri has no content for this Expectation at this grade	
M.2.C: determine volume by finding the total number of the same size units needed to fill a space without gaps or overlaps	SE/TE: 592J, 610A-610B, 610-613, 615, 619, 632-633, 634-635, 639, 642

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M.2.D: Missouri has no content for this Expectation at this grade	
M.2.E: convert from one unit to another within a system of linear measurement (customary and metric)	SE/TE: 71, 76B, 120, 155, 221, 248, 526, 526A-526B, 526-529, 533, 534B, 534-535, 536A-536B, 536-539, 541, 546, 547, 563, 577, 578, 580, 582, 584, 588, 674, 686
D: Data and Probability	
D.1: Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them	
D.1.A: evaluate data-collection methods	SE/TE: 260A-260B, 260-261, 262B, 269, 280, 281, 297, 305, 312, 315, 318, 322, 731
D.1.B: Missouri has no content for this Expectation at this grade	
D.1.C: describe methods to collect, organize and represent categorical and numerical data	SE/TE: 11, 70B, 260A-260B, 260-261, 262A-262B, 262-265, 266A-266B, 266-269, 270A-270B, 270-273, 274-275, 276A-276B, 276-279, 280, 281, 282A-282B, 282-285, 286A-286B, 286-287, 288A-288B, 288-291, 292A-292B, 292-293, 294, 295, 297, 305, 306A-306B, 312-313, 314-315, 318-321, 322-325, 383, 403, 428, 448, 466, 493, 503, 517, 538, 551, 583, 731
D.2: Select and use appropriate statistical methods to analyze data	
D.2.A: compare related data sets	SE/TE: 76B, 238-239, 262A-262B, 262-265, 269, 276A, 276-278, 280, 281, 285, 292A-292B, 292-293, 294, 295, 298-299, 312-313, 315, 317, 318-320, 322-323
D.2.B: Missouri has no content for this Expectation at this grade	
D.2.C: Missouri has no content for this Expectation at this grade	
D.3: Develop and evaluate inferences and predictions that are based on data	
D.3.A: given a set of data make and justify predictions	SE/TE: 16, 32B, 55, 76B, 80B, 208-209, 210A-210B, 210-211, 258J, 262A, 266A-266B, 266-269, 291, 296A-296B, 296-299, 305, 308, 311, 313, 315, 325, 664B, 664-665, 669, 690, 693
D.3.B: Missouri has no content for this Expectation at this grade	
D.4: Understand and apply basic concepts of probability	
D.4.A: describe the degree of likelihood of events using such words as certain, equally likely and impossible	SE/TE: 121, 191, 249, 296A-296B, 296-299, 301, 302A-302B, 302-305, 308, 309, 313, 314, 321, 325, 331, 383, 517, 637
D.4.B: Missouri has no content for this Expectation at this grade	