

A Correlation of

Scott Foresman • Addison Wesley

en**Vision**MATH™

to the

Maine
Grade Level Expectations
Mathematics

Grades K-6

PEARSON

O/M-185

Correlation Introduction

This correlation is designed to show the close alignment between Scott Foresman-Addison Wesley enVisionMATH and the State of Maine Grade Level Expectations—Mathematics. Correlation page references are to the Teacher’s Edition and Student Edition.

The en**Vision**MATH™ program is based around scientific research on how children learn mathematics as well as on classroom-based evidence that validates proven reliability.

Personalized Curriculum

en**Vision**MATH™ provides 20 (16 in Kindergarten) focused topics that are coherent, digestible groups of lessons focusing on one or a few related content areas. A flexible sequence of topics is small enough for a district to rearrange into a personalized curriculum that matches the sequence preferred by the district. The curriculum is designed so that all standards can be taught before the major mathematics testing.

Instructional Design

en**Vision**MATH™ teaches for deep conceptual understanding using research-based best practices. Essential understandings connected by Big Ideas are explicitly stated in the Teacher’s Edition. Daily Spiral Review and the Problem of the Day focus foundational skills and allow for ongoing practice with a variety of problem types. Daily interactive concept development encourages students to interact with teachers and other students to develop conceptual understanding.

Visual Learning allows students to benefit from seeing math ideas portrayed pictorially as well as being able to see connections between ideas. en**Vision**MATH™ created a Visual Learning Bridge which is a step-by-step bridge between the interactive learning activity and the lesson exercises to help students focus on one idea at a time and see the connections within the sequence of ideas. The strong sequential visual/verbal connections deepen conceptual understanding for students of all learning modalities and are particularly effective with English language learners and struggling readers. Guiding questions in blue type help the teacher guide students through the examples, ask probing questions to stimulate higher order thinking, and allow for checking of understanding.

Differentiated Instruction

en**Vision**MATH™ engages and interests all students with leveled activities for ongoing differentiated instruction. A Teacher-Directed Intervention activity at the end of every lesson provides immediate opportunities to get students on track. In addition, ready made leveled learning centers for each lesson allow different students to do the same activity at different levels at the same time giving the teacher uninterrupted time to focus on reteaching students who require intervention. All centers can be used repeatedly due to the inclusion of a “Try Again” at the end. They can also be used for ongoing review and they can be used year after year. Topic-specific considerations for EL, Special Education, At-Risk, and Advanced students enable the teacher to accommodate the diverse learners in the classroom.

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**Scott Foresman – Addison Wesley enVisionMATH
to the Maine Grade Level Expectations—Mathematics
Kindergarten to Grade Three
Kindergarten**

Cluster 1. Numbers and Operation

Content Standard A: Number and Number Sense: Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:

M1A1.3 Read, write, model, and compare whole numbers using $<$, $>$, and $=$ and order numbers up to 9999 and classify numbers as odd or even for numbers up to 9999.

Topic 4: 51A-52C, 53A-54C, 55A-56C, 57A-58C, 59A-60C, 61A-62C, 63A-64C

Topic 5: 75A-76C, 77A-78C, 79A-80C, 81A-82C, 83A-84C, 85A-86C, 87A-88C, 89A-90C, 91A-92C, 95A-96C

Topic 6: 101A-102C, 103A-104C, 105A-106C

Topic 12: 213A-214C, 215A-216C, 217A-218C, 219A-220C, 221A-222C, 223A-224C

Topic 15: 277A-278C, 280A, 280C

M1A2.3 Read, write, model and compare simple fractions with denominators 2,3 and 4

See related concepts and skills.

Topic 8: Prerequisite 139A-140C

Also see Grade One.

Topic 19: 585A-588B, 589A-592B, 593A-596B, 597A-600B, 601A-604B

M1A3.3 Demonstrate understanding of the meaning of decimals through hundredths (in money contexts only).

See prerequisite concepts and skills.

Topic 13: 237A-238C, 239A-240C, 241A-242C, 243A-244C

Also see Grade One.

Topic 13: 379A-382B

Content Standard B: Computation: Students will understand and demonstrate computation skills (no calculator use for straight computation and numbers used in this section should match those listed for Standard A). Students will be able to:

M1B1.3 Solve single and multi-step, real-life problems using addition and subtraction with whole numbers with no number greater than 9999.

Topic 10: 177A-178C, 179A-180C, 181A-182C, 183A-184C, 185A-186C, 187A-188C, 189A-190C

Topic 11: 195A-196C, 197A-198C, 199A-200C, 201A-202C, 203A-204C, 205A-206C, 207A-208C

M1B3.3 Develop proficiency with the facts and algorithms of addition and subtraction on whole numbers using mental math and a variety of materials, strategies, and technologies with no number greater than 9999.

Topic 10: 177A-178C, 179A-180C, 181A-182C, 183A-184C, 185A-186C, 187A-188C, 189A-190C

Topic 11: 195A-196C, 197A-198C, 199A-200C, 201A-202C, 203A-204C, 205A-206C, 207A-208C

Content Standard I: Discrete Mathematics: Students will understand and apply concepts in discrete mathematics. Students will be able to:

M1I1.3 Create and use organized lists and Venn diagrams.

Topic 4: 69A-70C

Cluster 2. Shape and Size

Content Standard E: Geometry: Students will understand and apply concepts from geometry.

M2E1.3 Use properties/ attributes (limited to number of sides, number of angles) to identify, describe, and distinguish between triangles and rectangles and lengths of sides to identify squares as special rectangles.

Topic 1: 3, 4, 4A, 4B, 4C, 5A, 6, 7A, 9A, 10, 10A, 10C, 11A-12C

Topic 7: 115A-116C, 117A-118C

M2E2.3 Identify a line of symmetry for a given shape or answer questions about figures based on lines of symmetry, e.g. “which of the following shapes have one or more lines of symmetry?”

Topic 7: 123A-124C

Content Standard F: Measurement: Students will understand and demonstrate measurement skills. Students will be able to:

M2F1.3 Solve and justify solutions to real-life problems involving the measurement of time, length, and temperature including using a ruler to measure length to the nearest inch and whole centimeter. *Ruler on grade 3,4 &5 tests

Topic 9: 155, 156A, 156C, 158C, 159, 160A, 160C, 161, 162A

Topic 14: 259A-260C, 261A-262C

Topic 15: 281A-282C, 283A-284C

M2F2.3 Select appropriate tools and units to measure length, time, and temperature

Topic 9: 159A-160C

Topic 14: 259A-260C, 261A-262C

Topic 15: 281A-282C, 283A-284C

Cluster 3. Mathematical Decision Making

Content Standard C: Data Analysis and Statistics: Students will understand and apply concepts of data analysis. Students will be able to:

M3C2.3 Read and interpret displays of data: line plots, tables, tally charts, and bar graphs, identifying least frequent, most frequent (mode*), reading, using and comparing values. *not responsible for this vocabulary

Topic 5: 95A-96C

Topic 16: 297A-298C, 301A-302C

Content Standard D: Probability: Students will understand and apply concepts of probability. Students will be able to:

M3D2.3 Recognize and describe the likelihood of the occurrence of an event or events using “always”, “impossible”, “likely”, “not likely” or “equally likely.”

Topic 16: 299A-300C

Cluster 4. Patterns

Content Standard G: Patterns, Relations, and Functions: Students will understand that mathematics is the science of patterns, relationships, and functions. Students will be able to:

M4G1.3 Determine the next term or missing terms in patterns with numbers or shapes.

Topic 3: 37A-38C, 43A-44C

Topic 12: 223A-224C, 225A-226C, 227A-228C, 229A-230C

Topic 15: 277A-278C, 279A-280C

M4G2.3 Translate real-life situations into addition and subtraction sentences.

Topic 10: 185A-186C, 187A-188C

Topic 11: 203A-204C, 205A-206C

Content Standard H: Algebra Concepts: Students will understand and apply algebraic concepts. Students will be able to:

M4H2.3 Solve for a missing number or find the replacement for a symbol in addition and subtraction sentences using whole numbers.

Topic 10: 185A-186C, 187A-188C

Topic 11: 203A-204C, 205A-206C

Content Standard K. Communication: Students will reflect upon and clarify their understanding of mathematical ideas and relationships. Students will be able to:

M4K1.3 Complete tables, bar graphs and pictographs.

Topic 5: 95A-96C

Topic 16: 295A-296C, 297A-298C, 301A-302C

**Scott Foresman – Addison Wesley enVisionMATH
to the Maine Grade Level Expectations—Mathematics
Kindergarten to Grade Three
Grade One**

Cluster 1. Numbers and Operation

Content Standard A: Number and Number Sense: Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:

M1A1.3 Read, write, model, and compare whole numbers using $<$, $>$, and $=$ and order numbers up to 9999 and classify numbers as odd or even for numbers up to 9999.

Topic 1: 3A-6B, 7A-10B, 11A-14B, 15A-18B, 19A-22B, 23A-26B

Topic 2: 31A-34B, 35A-38B, 43A-46B

Topic 5: 119A-122B, 123A-126B

Topic 10: 263A-266B, 267A-270B

Topic 11: 303A-306B, 307A-310B, 311A-314B, 315A-318B, 319A-322B, 323A-326B

Topic 12: 331A-334B, 335A-338B, 339A-342B, 343A-346B, 347A-350B, 351A-354B, 355A-358B, 359A-362B

M1A2.3 Read, write, model and compare simple fractions with denominators 2,3 and 4

Topic 19: 585A-588B, 589A-592B, 593A-596B, 597A-600B, 601A-604B

M1A3.3 Demonstrate understanding of the meaning of decimals through hundredths (in money contexts only).

Topic 13: 379A-382B

Content Standard B: Computation: Students will understand and demonstrate computation skills (no calculator use for straight computation and numbers used in this section should match those listed for Standard A). Students will be able to:

M1B1.3 Solve single and multi-step, real-life problems using addition and subtraction with whole numbers with no number greater than 9999.

Topic 3: 54, 58, 62, 62B, 65, 66B, 67A-70B, 75A-78B

Topic 4: 83A-86B, 90, 90B, 94, 94B, 98, 98B, 99A-102B, 103A-106B, 110, 110B, 111A-114B

Topic 5: 127, 129, 130, 130B, 131, 134, 134B

Topic 6: 143A-146B, 147A-150B, 151A-154B, 155A-158B, 159A-162B, 163A-166B

Topic 7: 171A, 174, 174B, 178, 178B, 182, 186, 186B, 187A-190B

Topic 13: 387A-390B

Topic 16: 484, 484B, 488, 488B, 492, 492B, 493A-496B, 500, 500B, 504, 504B, 508

Topic 17: 520, 520B, 524B, 528, 532B, 533A-536B

Topic 20: 612, 612B, 616, 620, 620B, 624, 628, 632, 636, 636B, 637A-640B

M1B3.3 Develop proficiency with the facts and algorithms of addition and subtraction on whole numbers using mental math and a variety of materials, strategies, and technologies with no number greater than 9999.

Topic 3: 51A-54B, 55A-58B, 59A-62B, 63A-66B, 67A-70B, 71A-74B, 75A-78B

Topic 4: 83A-86B, 87A-90B, 91A-94B, 95A-98B, 99A-102B, 103A-106B, 107A-110B, 111A-114B

Topic 5: 127A-130B, 131A-134B

Topic 7: 171A-174B, 175A-178B, 179A-182B, 183A-186B, 187A-190B

Topic 13: 387A-390B

Topic 16: 481A-484B, 485A-488B, 489A-492B, 493A-496B, 497A-500B, 501A-504B, 505A-508B

Topic 17: 520, 520B, 524B, 528, 532B, 533A-536B

Topic 20: 609A-612B, 613A-616B, 617A-620B, 621A-624B, 625A-628B, 629A-632B, 633A-636B, 637A-640B

Content Standard I: Discrete Mathematics: Students will understand and apply concepts in discrete mathematics. Students will be able to:

M1I1.3 Create and use organized lists and Venn diagrams.

Topic 8: 223A-226B

Topic 11: 323A-326B

Topic 12: 359A-362B

Cluster 2. Shape and Size

Content Standard E: Geometry: Students will understand and apply concepts from geometry.

M2E1.3 Use properties/ attributes (limited to number of sides, number of angles) to identify, describe, and distinguish between triangles and rectangles and lengths of sides to identify squares as special rectangles.

Topic 8: 195A-198B, 199A-202B

M2E2.3 Identify a line of symmetry for a given shape or answer questions about figures based on lines of symmetry, e.g. “which of the following shapes have one or more lines of symmetry?”

Topic 8: 219A-222B

Content Standard F: Measurement: Students will understand and demonstrate measurement skills. Students will be able to:

M2F1.3 Solve and justify solutions to real-life problems involving the measurement of time, length, and temperature including using a ruler to measure length to the nearest inch and whole centimeter. *Ruler on grade 3,4 &5 tests

Topic 14: 395A-398B, 399A-402B, 403A-406B, 407A-410B, 411A-414B, 415A-418B, 443A-446B

Topic 15: 453A-456B, 457A-460B, 461A-464B, 465A-468B

M2F2.3 Select appropriate tools and units to measure length, time, and temperature**Topic 14:** 407A-410B, 411A-414B, 415A-418B**Topic 15:** 453A-456B, 457A-460B, 461A-464B, 465A-468B, 469A-472B, 473A-476B**Cluster 3. Mathematical Decision Making****Content Standard C: Data Analysis and Statistics:** Students will understand and apply concepts of data analysis. Students will be able to:**M3C2.3 Read and interpret displays of data: line plots, tables, tally charts, and bar graphs, identifying least frequent, most frequent (mode*), reading, using and comparing values. *not responsible for this vocabulary****Topic 5:** 135A-138B**Topic 8:** 206B, 212, 214, 223, 224, 225, 226B, 232, 233, 234B**Topic 10:** 291A-294B, 295A-298B**Topic 15:** 473A-476B**Topic 16:** 509A-512B**Topic 18:** 541A-544B, 545A-548B, 549A-552B, 557A-560B, 561A-564B, 565A-568B, 569A-572B**Content Standard D: Probability:** Students will understand and apply concepts of probability. Students will be able to:**M3D2.3 Recognize and describe the likelihood of the occurrence of an event or events using “always”, “impossible”, “likely”, “not likely” or “equally likely.”****Topic 18:** 573A-576B, 577A-580B**Cluster 4. Patterns****Content Standard G: Patterns, Relations, and Functions:** Students will understand that mathematics is the science of patterns, relationships, and functions. Students will be able to:**M4G1.3 Determine the next term or missing terms in patterns with numbers or shapes.****Topic 9:** 247A-250B, 251A-254B, 255A-258B**M4G2.3 Translate real-life situations into addition and subtraction sentences.****Topic 3:** 66, 66B, 68, 69, 70, 70B, 74, 74B, 75A-78B**Topic 4:** 98, 98B, 99A-102B, 103A-106B, 110B, 111A-114B**Topic 6:** 146, 148, 149, 150B, 154, 158, 162, 162B, 163A-166B**Topic 7:** 174, 174B, 178, 178B, 182, 182B, 186, 186B, 187A-190B**Topic 13:** 387A-390B**Topic 16:** 483, 484, 484B, 488, 492, 492B, 493A-496B, 500, 500B, 504, 504B**Topic 17:** 520, 520B, 524B, 528, 532B, 533A-536B**Topic 20:** 612, 612B, 616, 620B, 628, 632, 636B, 640B**Content Standard H: Algebra Concepts:** Students will understand and apply algebraic concepts. Students will be able to:

M4H2.3 Solve for a missing number or find the replacement for a symbol in addition and subtraction sentences using whole numbers.**Topic 3:** 70B, 73, 74B, 78**Topic 4:** 97, 101, 105, 109**Topic 5:** 134B**Topic 6:** 149, 150B, 153, 154B, 157, 158B, 162, 162B**Topic 7:** 174B, 176, 177, 178B, 180, 181, 182B, 184, 185, 186B, 190**Topic 16:** 486, 488B, 491, 492B, 500B, 504B**Topic 17:** 518, 520B, 524B, 525A-528B, 530, 533A-536B**Topic 20:** 612B, 614, 615, 616B, 620B, 622, 623, 624B, 626, 627, 628B, 631, 634, 635, 636B, 640

Content Standard K. Communication: Students will reflect upon and clarify their understanding of mathematical ideas and relationships. Students will be able to:

M4K1.3 Complete tables, bar graphs and pictographs.**Topic 5:** 135A-138B**Topic 8:** 206B, 212, 214, 223, 224, 225, 226B, 232, 233, 234B**Topic 10:** 291A-294B, 295A-298B**Topic 15:** 473A-476B**Topic 16:** 509A-512B**Topic 18:** 557A-560B, 561A-564B, 565A-568B, 569A-572B

**Scott Foresman – Addison Wesley enVisionMATH
to the Maine Grade Level Expectations—Mathematics
Kindergarten to Grade Three
Grade Two**

Cluster 1. Numbers and Operation

Content Standard A: Number and Number Sense: Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:

M1A1.3 Read, write, model, and compare whole numbers using $<$, $>$, and $=$ and order numbers up to 9999 and classify numbers as odd or even for numbers up to 9999.

Topic 4: 99A-102B, 103A-106B, 107A-110B, 111A-114B, 115A-118B, 119A-122B, 123A-126B, 131A-134B, 135A-138B

Topic 17: 511A-514B, 515A-518B, 519A-522B, 531A-534B, 539A-542B

M1A2.3 Read, write, model and compare simple fractions with denominators 2,3 and 4

Topic 12: 351A-354B, 355A-358B, 359A-362B, 367A-370B

M1A3.3 Demonstrate understanding of the meaning of decimals through hundredths (in money contexts only).

Topic 5: 155A-158B, 159A-162B

Content Standard B: Computation: Students will understand and demonstrate computation skills (no calculator use for straight computation and numbers used in this section should match those listed for Standard A). Students will be able to:

M1B1.3 Solve single and multi-step, real-life problems using addition and subtraction with whole numbers with no number greater than 9999.

Topic 1: 6, 7A-10B, 14, 14B, 15A-18B, 19A-22B, 26, 27A-30B

Topic 2: 38, 38B, 42, 42B, 46, 46B, 50, 50B, 54, 54B, 58, 58B, 62, 62B, 63A-66B

Topic 3: 74, 74B, 78, 78B, 82, 82B, 86, 86B, 90, 90B, 91A-94B

Topic 7: 198, 198B, 202, 202B, 206, 206B, 210, 210B, 211A-214B

Topic 8: 222, 222B, 226, 226B, 230, 230B, 234, 234B, 238, 238B, 242, 242B, 243A-246B

Topic 9: 254, 258, 262, 266, 270, 274, 275A-278B

Topic 10: 283A-286B, 294, 294B, 295A-296B, 306, 306B, 307A-310B

Topic 18: 554, 562, 562B, 566, 566B, 570, 570B, 578, 578B, 582, 582B, 583A-586B

M1B3.3 Develop proficiency with the facts and algorithms of addition and subtraction on whole numbers using mental math and a variety of materials, strategies, and technologies with no number greater than 9999.

Topic 1: 3A-6B, 7A-10B, 11A-14B, 15A-18B, 19A-22B, 23A-26B, 27A-30B

Topic 2: 35A-38B, 39A-42B, 43A-46B, 47A-50B, 51A-54B, 55A-58B, 59A-62B

Topic 3: 71A-74B, 75A-78B, 79A-82B, 83A-86B, 87A-90B, 91A-94B

Topic 7: 195A-198B, 199A-202B, 203A-206B, 207A-210B, 211A-214B

Topic 8: 219A-222B, 223A-226B, 227A-230B, 231A-234B, 235A-238B, 239A-242B, 243A-246B

Topic 9: 251A-254B, 255A-258B, 259A-262B, 263A-266B, 267A-270B, 271A-274B, 275A-278B

Topic 10: 283A-286B, 294, 294B, 295A-298B, 306, 306B, 307A-310B

Topic 18: 551A-554B, 559A-562B, 563A-566B, 567A-570B, 575A-578B, 579A-582B

Topic 19: 591A-594B

Topic 20: 623A-626B

Content Standard I: Discrete Mathematics: Students will understand and apply concepts in discrete mathematics. Students will be able to:

M1I1.3 Create and use organized lists and Venn diagrams.

Topic 5: 163A-166B

Cluster 2. Shape and Size

Content Standard E: Geometry: Students will understand and apply concepts from geometry.

M2E1.3 Use properties/ attributes (limited to number of sides, number of angles) to identify, describe, and distinguish between triangles and rectangles and lengths of sides to identify squares as special rectangles.

Topic 11: 313, 319A-322B

M2E2.3 Identify a line of symmetry for a given shape or answer questions about figures based on lines of symmetry, e.g. “which of the following shapes have one or more lines of symmetry?”

Topic 11: 339A-342B

Content Standard F: Measurement: Students will understand and demonstrate measurement skills. Students will be able to:

M2F1.3 Solve and justify solutions to real-life problems involving the measurement of time, length, and temperature including using a ruler to measure length to the nearest inch and whole centimeter. *Ruler on grade 3,4 &5 tests

Topic 13: 391A-394B, 395A-398B

Topic 14: 443A-446B

Topic 15: 451A-454B, 455A-458B, 459A-462B, 463A-466B, 467A-470B, 471A-474B

M2F2.3 Select appropriate tools and units to measure length, time, and temperature

Topic 13: 391A-394B, 395A-398B

Topic 14: 443A-446B

Topic 15: 451A-454B, 455A-458B, 459A-462B, 463A-466B, 467A-470B, 471A-474B

Cluster 3. Mathematical Decision Making

Content Standard C: Data Analysis and Statistics: Students will understand and apply concepts of data analysis. Students will be able to:

M3C2.3 Read and interpret displays of data: line plots, tables, tally charts, and bar graphs, identifying least frequent, most frequent (mode*), reading, using and comparing values. *not responsible for this vocabulary

Topic 5: 163A-166B

Topic 16: 478, 479A-482B, 483A-486B, 487A-490B, 503A-506B

Topic 18: 583A-586B

Topic 20: 635A-638B

Content Standard D: Probability: Students will understand and apply concepts of probability. Students will be able to:

M3D2.3 Recognize and describe the likelihood of the occurrence of an event or events using “always”, “impossible”, “likely”, “not likely” or “equally likely.”

Topic 16: 495A-498B, 499A-502B

Cluster 4. Patterns

Content Standard G: Patterns, Relations, and Functions: Students will understand that mathematics is the science of patterns, relationships, and functions. Students will be able to:

M4G1.3 Determine the next term or missing terms in patterns with numbers or shapes.

Topic 4: 101, 105, 127A-130B

Topic 6: 173, 187A-190B

Topic 17: 527A-530B, 543A-546B

M4G2.3 Translate real-life situations into addition and subtraction sentences.

Topic 1: 6, 7A-10B, 14, 14B, 15A-18B, 19A-22B, 26, 27A-30B

Topic 2: 38, 38B, 42, 42B, 46, 46B, 50, 50B, 54, 54B, 58, 58B, 62, 62B, 63A-66B

Topic 3: 74, 74B, 78, 78B, 82, 82B, 86, 86B, 90, 90B, 91A-94B

Topic 6: 174, 178, 178B, 186

Topic 7: 206, 210, 211A-214B

Topic 8: 222, 243A-246B

Topic 9: 251, 275A-278B

Topic 18: 554

Content Standard H: Algebra Concepts: Students will understand and apply algebraic concepts. Students will be able to:

M4H2.3 Solve for a missing number or find the replacement for a symbol in addition and subtraction sentences using whole numbers.

Topic 1: 5, 6B, 13, 18B, 21, 26B

Topic 2: 37, 38B, 40, 41, 44, 45, 46B, 49, 50B, 54, 57, 58, 58B, 61, 62B

Topic 3: 73, 74B, 76, 77, 78B, 80, 81, 82B, 84, 85, 86B, 88, 89, 90, 90B, 93

Topic 6: 172, 173, 174B, 176, 177, 178B, 180, 181, 182B, 184, 185, 186B

Topic 7: 196, 197, 198B, 201, 202B, 204, 205, 206B, 208, 209, 210B

Topic 18: 551A-554B, 568, 569, 570B

Topic 19: 591A-594B

Topic 20: 623A-626B

Content Standard K. Communication: Students will reflect upon and clarify their understanding of mathematical ideas and relationships. Students will be able to:

M4K1.3 Complete tables, bar graphs and pictographs.

Topic 5: 163A-166B

Topic 16: 478, 479A-482B, 483A-486B, 487A-490B, 506, 506B

Topic 18: 583A-586B

Topic 20: 623A-626B

**Scott Foresman – Addison Wesley enVisionMATH
to the Maine Grade Level Expectations—Mathematics
Kindergarten to Grade Three
Grade Three**

Cluster 1. Numbers and Operation

Content Standard A: Number and Number Sense: Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:

M1A1.3 Read, write, model, and compare whole numbers using $<$, $>$, and $=$ and order numbers up to 9999 and classify numbers as odd or even for numbers up to 9999.

Topic 1: 4A-5B, 6A-7B, 8A-9B, 12A-15B

M1A2.3 Read, write, model and compare simple fractions with denominators 2,3 and 4

Topic 12: 276A-277B, 278A-279B, 280A-281B, 282A-283B, 284A-287B, 288A-289B

Topic 14: 332A-333B

M1A3.3 Demonstrate understanding of the meaning of decimals through hundredths (in money contexts only).

Topic 1: 18A-21B, 22A-23B

Topic 13: 306A-307B, 308A-311B

Content Standard B: Computation: Students will understand and demonstrate computation skills (no calculator use for straight computation and numbers used in this section should match those listed for Standard A). Students will be able to:

M1B1.3 Solve single and multi-step, real-life problems using addition and subtraction with whole numbers with no number greater than 9999.

Topic 2: 38, 49, 51, 52, 54, 55, 56, 57, 58A-59B

Topic 3: 66A-67B, 70, 71, 73, 78A-79B

Topic 4: 87, 89, 91, 93, 94, 97, 98A-101B

M1B3.3 Develop proficiency with the facts and algorithms of addition and subtraction on whole numbers using mental math and a variety of materials, strategies, and technologies with no number greater than 9999.

Topic 2: 34A-35B, 36A-39B, 48A-49B, 50A-53B, 54A-55B, 56A-57B, 58A-59B

Topic 3: 66A-67B, 68A-71B, 72A-73B, 78A-79B

Topic 4: 86A-87B, 88A-89B, 90A-91B, 92A-95B, 96A-97B, 98A-101B

Content Standard I: Discrete Mathematics: Students will understand and apply concepts in discrete mathematics. Students will be able to:

M1I1.3 Create and use organized lists and Venn diagrams.

Topic 1: 24A-25B

Topic 4: 101B

Topic 5: 121

Cluster 2. Shape and Size

Content Standard E: Geometry: Students will understand and apply concepts from geometry.

M2E1.3 Use properties/ attributes (limited to number of sides, number of angles) to identify, describe, and distinguish between triangles and rectangles and lengths of sides to identify squares as special rectangles.

Topic 10: 246A-247B, 248A-249B, 250A-251B

M2E2.3 Identify a line of symmetry for a given shape or answer questions about figures based on lines of symmetry, e.g. “which of the following shapes have one or more lines of symmetry?”

Topic 11: 264A-265B, 266A-267B

Content Standard F: Measurement: Students will understand and demonstrate measurement skills. Students will be able to:

M2F1.3 Solve and justify solutions to real-life problems involving the measurement of time, length, and temperature including using a ruler to measure length to the nearest inch and whole centimeter. *Ruler on grade 3,4 &5 tests

Topic 14: 328A-331B, 332A-333B, 334A-337B

Topic 15: 350A-351B, 352A-355B

Topic 17: 392A-395B, 396A-397B, 398A-399B, 400A-401B, 402A-403B, 404A-405B

M2F2.3 Select appropriate tools and units to measure length, time, and temperature

Topic 14: 328A-331B, 332A-333B, 334A-337B

Topic 15: 350A-351B, 352A-355B

Topic 17: 392A-395B, 396A-397B, 398A-399B, 400A-401B, 402A-403B, 404A-405B

Cluster 3. Mathematical Decision Making

Content Standard C: Data Analysis and Statistics: Students will understand and apply concepts of data analysis. Students will be able to:

M3C2.3 Read and interpret displays of data: line plots, tables, tally charts, and bar graphs, identifying least frequent, most frequent (mode*), reading, using and comparing values. *not responsible for this vocabulary

Topic 15: 360A-361B

Topic 20: 458A-459B, 460A-463B, 464A-465B, 466A-467B, 478A-481B, 482A-483B

Content Standard D: Probability: Students will understand and apply concepts of probability. Students will be able to:

M3D2.3 Recognize and describe the likelihood of the occurrence of an event or events using “always”, “impossible”, “likely”, “not likely” or “equally likely.”

Topic 20: 472A-475B, 478, 480

Cluster 4. Patterns

Content Standard G: Patterns, Relations, and Functions: Students will understand that mathematics is the science of patterns, relationships, and functions. Students will be able to:

M4G1.3 Determine the next term or missing terms in patterns with numbers or shapes.

Topic 9: 206A-207B, 208A-209B, 218A-221B

Topic 15: 360A-361B

M4G2.3 Translate real-life situations into addition and subtraction sentences.

Topic 2: 48, 49, 49B, 54, 55, 55B

Topic 3: 66A-67B, 70, 71, 73, 73B

Topic 4: 89, 91, 93, 94, 97, 98A-101B

Content Standard H: Algebra Concepts: Students will understand and apply algebraic concepts. Students will be able to:

M4H2.3 Solve for a missing number or find the replacement for a symbol in addition and subtraction sentences using whole numbers.

Topic 2: 32A-33B, 34B, 35, 35B, 36B, 37, 38, 39B, 48, 49, 49B, 54, 55, 55B, 56, 57, 57B

Topic 3: 66A-67B, 70, 71, 73, 73B

Topic 4: 89, 93, 94, 95, 97, 98-100

Content Standard K. Communication: Students will reflect upon and clarify their understanding of mathematical ideas and relationships. Students will be able to:

M4K1.3 Complete tables, bar graphs and pictographs.

Topic 9: 210A-211B, 212A-215B

Topic 12: 298A-299B

Topic 15: 360A-361B

Topic 20: 458A-459B, 464A-465B, 466A-467B, 483

**Scott Foresman – Addison Wesley enVisionMATH
to the Maine Grade Level Expectations—Mathematics
Grade Four**

Cluster 1. Numbers and Operation

Content Standard A: Number and Number Sense: Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:

M1A1.4 Read, compare, order, classify, and explain whole numbers up to one million.
Topic 1: 4A-7B, 8A-9B, 10A-13B

M1A2.4 Read, compare, order, classify, and explain simple fractions through tenths.
Topic 10: 216A-219B, 220A-221B, 224A-227B, 228B-229B, 230A-233B, 234A-235B, 236A-237B

M1A3.4 Demonstrate knowledge of the meaning of decimals and integers and an understanding of how they may be used.
Topic 1: 16A-17B
Topic 12: 268A-269B, 270A-273B

Content Standard B: Computation: Students will understand and demonstrate computation skills (no calculator use for straight computation and numbers used in this section should match those listed for Standard A). Students will be able to:

M1B1.4 Solve multi-step, real-life problems using the four operations with whole numbers.
Topic 2: 44, 45
Topic 3: 68, 69
Topic 4: 85
Topic 5: 97, 108
Topic 7: 156A-157B
Topic 8: 186A-187B

M1B2.4 Solve real-life problems involving addition and subtraction of simple fractions.
Topic 11: 250, 251, 252, 253, 253B, 254, 255, 255B, 256, 257, 257B, 258A-261B

M1B3.4 Develop proficiency with the facts and algorithms of the four operations on whole numbers using mental math and a variety of materials, strategies, and technologies.
Topic 2: 28A-31B, 36A-39B, 40A-41B, 42A-43B
Topic 3: 54A-57B, 58A-59B, 62A-63B, 64A-65B, 66A-67B
Topic 4: 76A-79B, 80A-81B, 82A-83A, 84A-85B
Topic 5: 98A-99B, 106A-109B, 110A-113B, 114A-115B
Topic 6: 128A-129B
Topic 7: 142A-143B, 146A-149B, 150A-151B, 152A-153B, 154A-155B
Topic 8: 164A-165B, 168A-169B, 174A-177B, 178A-179B

Content Standard I: Discrete Mathematics: Students will understand and apply concepts in discrete mathematics. Students will be able to:

M1I1.4 Create and use organized lists, tree diagrams, Venn diagrams and networks.

Topic 1: 20A-21B

Topic 8: 117

Topic 15: 346, 348, 350A-351B, 353

Topic 20: 470A-471B

Cluster 2. Shape and Size

Content Standard E: Geometry: Students will understand and apply concepts from geometry.

M2E1.4 Describe, model, and classify shapes and figures using applicable properties.

Topic 9: 202A-203B, 204A-205B, 206A-207B

Topic 15: 346A-349B, 350A-351B, 353

M2E2.4 Experiment with shapes and figures to make generalizations regarding congruency, symmetry, and similarity.

Topic 19: 454A-455B, 456A-457B

M2E3.4 Use transformations such as slides, flips, and rotations.

Topic 19: 448A-449B, 450A-451B, 452A-453B

Content Standard F: Measurement: Students will understand and demonstrate measurement skills. Students will be able to:

M2F1.4 Solve and justify solutions to real-life problems involving the measurement of time, length, area, perimeter, weight, temperature, mass, capacity, and volume.

Topic 14: 318A-319B, 320-322, 324-325, 326-327, 329-330, 332-333, 334-335, 336-337

Topic 15: 354A-355B

Topic 16: 364A-365B, 366A-367B, 368A-369B, 374A-375B, 376A-377B, 378A-379B, 384A-385B, 386A-389B, 390A-391B

M2F2.4- Select measuring tools and units of measurement that are appropriate for what is being measured.

Topic 9: 200A-201B

Topic 14: 318A-319B, 320A-322B, 324A-325B, 326A-327B, 328A-331B

Topic 16: 364A-365B, 366A-367B, 368A-369B, 374A-375B, 376A-377B, 378A-379B, 384A-385B, 386A-389B, 390A-391B

Cluster 3. Mathematical Decision Making

Content Standard C: Data Analysis and Statistics: Students will understand and apply concepts of data analysis. Students will be able to:

M3C2.4 Read and interpret displays of data.

Topic 17: 402A-403B, 404A-405B, 406A-407B, 410A-411B, 416A-417B, 418A-419B, 420A-423B

Content Standard D: Probability: Students will understand and apply concepts of probability. Students will be able to:

M3D2.4 Estimate probability from a sample of observed outcomes and simulations.

Topic 20: 472A-475B

Cluster 4. Patterns

Content Standard G: Patterns, Relations, and Functions: Students will understand that mathematics is the science of patterns, relationships, and functions. Students will be able to:

M4G1.4. Use the patterns of numbers, geometry, and a variety of graphs to solve a problem.

Topic 6: 128A-129B, 130A-131B, 132A-133B

Topic 15: 356A-357B

Topic 17: 410A-411B

M4G2.4 Use variables and open sentences to express relationships.

Topic 15: 357

Topic 18: 432, 433B, 434A-435B, 436A-437B

Content Standard H: Algebra Concepts: Students will understand and apply algebraic concepts. Students will be able to:

M4H1.4 Develop and evaluate simple formulas in problem-solving contexts.

Topic 14: 318A-319B, 320A-323B, 324A-325B, 326A-327B, 328A-331B

Topic 15: 354A-355B

M4H2.4 Find replacements for variables that make simple number sentences true.

Topic 15: 357

Topic 18: 432, 433B, 434A-435B, 436A-437B

Content Standard K. Communication: Students will reflect upon and clarify their understanding of mathematical ideas and relationships. Students will be able to:

M4K1.4 Use simple tables and graphs to communicate ideas and information in a concise and clear manner.

Topic 6: 128A-129B, 130A-131B, 132A-133B

Topic 14: 336A-339B

Topic 17: 402A-403B, 404A-405B, 406A-407B, 410A-411B, 416A-417B, 418A-419B, 420A-423B

Topic 20: 476A-477B

**Scott Foresman – Addison Wesley enVisionMATH
to the Maine Grade Level Expectations—Mathematics
Grade Five**

Cluster 1. Numbers and Operation

Content Standard A: Number and Number Sense: Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:

M1A1.5 Read, compare, order, use, and represent simple fractions (halves, fourths, fifths, and tenths with all numerators) and decimals to hundredths.

Topic 1: 10A-11B, 12A-13B, 14A-17B

Topic 9: 220A-223B, 224A-225B, 228A-229B, 230A-231B, 234A-237B, 238A-241B, 244A-245B

M1A3.5 Use divisibility rules for 2, 5 and 10.

Topic 4: 102, 103, 105B, 109

Content Standard B: Computation: Students will understand and demonstrate computation skills (no calculator use for straight computation and numbers used in this section should match those listed for Standard A). Students will be able to:

M1B1.5 Compute and model all four operations on whole numbers (1-digit divisor, 3-digit dividend) and addition and subtraction with simple fractions with common denominators and decimals to hundredths and do straight computation with these numbers and operations.

Topic 2: 24A-27B, 38A-41B, 42A-43B, 44A-45B

Topic 3: 60A-61B, 64A-67B, 68A-69B, 70A-71B

Topic 4: 84A-85B, 88A-89B, 90A-93B, 94A-97B, 98A-101B, 110A-113B

Topic 10: 256A-259B

M1B2.5 Create, solve, and justify the solution for multi-step, real-life problems involving all four operations on whole numbers (1-digit divisor, 3-digit dividend) and addition and subtraction with simple fractions with common denominators and decimals to hundredths.

Topic 2: 46A-49B

Topic 3: 61, 71, 76

Topic 4: 85, 92, 96, 112

Topic 5: 126

Cluster 2. Shape and Size

Content Standard E: Geometry: Students will understand and apply concepts from geometry.

M2E1.5 Use properties/ attributes (limited to number of sides, number of angles, and length of sides, and lines of symmetry) to classify polygons and draw 2-dimensional shapes.

Topic 8: 206A-207B, 208A-209B, 210A-211B, 212B-213B

M2E2.5. Plot non-negative values as points on a number line.**Topic 1:** 11**Topic 2:** 28B, 28, 29B**Topic 9:** 224A-245B**Topic 15:** 380A-381B

Content Standard F: Measurement: Students will understand and demonstrate measurement skills. Students will be able to:

M2F2.5 Solve problems involving direct measures of length, distance, elapsed time, temperature, capacity, mass and weight with measures limited to whole numbers (quarters for lengths) including using a ruler to measure length to the nearest quarter inch and whole centimeter.

Topic 12: 296A-297B, 298A-299B**Topic 14:** 348A-349B, 350A-351B, 352A-353B, 358A-361B, 362A-363B, 364A-365B, 366A-367B

M2F3.5 Find area and perimeter of rectangles with whole numbers (includes formula use) with correct units.

Topic 12: 300A-303B, 304A-305B**Topic 13:** 336A-339B**Cluster 3. Mathematical Decision Making**

Content Standard C: Data Analysis and Statistics: Students will understand and apply concepts of data analysis. Students will be able to:

M3C1.5 Organize data to find mode, median and range of a set of values

Topic 18: 452A-453B

Content Standard D: Probability: Students will understand and apply concepts of probability. Students will be able to:

M3D1.5 Find the probabilities of simple events and represent them as fractions (1/2, 1/3, 2/3, 1/4, 2/4, 3/4 eligible).

Topic 20: 488A-491B, 492A-493B**Cluster 4. Patterns**

Content Standard G: Patterns, Relations, and Functions: Students will understand that mathematics is the science of patterns, relationships, and functions. Students will be able to:

M4G1.5 Translate real-life situations into addition, subtraction, multiplication, or division sentences.

Topic 2: 34A-37B**Topic 3:** 74A-77B**Topic 4:** 110A-113B**Topic 11:** 288A-289B**Topic 15:** 376A-377B, 378A-379B, 386A-389B

M4G3.5 Solve problems involving linear patterns in tables, graphs, words or rules using whole numbers.

Topic 15: 382A-385B, 389

Topic 16: 404A-405B

Topic 17: 420A-421B

Content Standard H: Algebra Concepts: Students will understand and apply algebraic concepts. Students will be able to:

M4H1.6 Evaluate formulas with no more than 2 variables using whole numbers.

Topic 12: 300A-303B, 304A-305B, 306A-307B, 308A-309B, 310A-313B

Topic 13: 332A-335B, 336A-339B

M4H6.5 Solve one-step equations using addition, subtraction, or multiplication with a variable. Values for variables are limited to whole numbers.

Topic 2: 34A-37B

Topic 3: 74A-77B

Topic 4: 110A-113B

Topic 15: 376A-377B, 378A-379B, 386A-389B

Content Standard K. Communication: Students will reflect upon and clarify their understanding of mathematical ideas and relationships. Students will be able to:

M4K2.5 Read and use statistics, tables, and graphs to communicate ideas and information. Data displays include frequency distributions, tables, line plots, histograms or bar graphs and pie charts/circle graphs (read only).

Topic 13: 340B, 341B

Topic 14: 366A-367B

Topic 15: 382A-385B

Topic 16: 404A-405B

Topic 17: 420A-421B

Topic 18: 430A-431B, 432A-435B, 436A-439B, 444A-445B, 446A-449B, 450A-451B, 452A-453B, 454A-455B

**Scott Foresman – Addison Wesley enVisionMATH
to the Maine Grade Level Expectations—Mathematics
Grade Six**

Cluster 1. Numbers and Operation

Content Standard A: Number and Number Sense: Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:

M1A1.6 Read, compare, order, use and represent fractions, (halves, thirds, fourths, fifths, sixths, eighths and tenths with all numerators); and compare, order, use and represent decimals to thousandths and convert between decimals and percentages.

Topic 1: 14A-17A, 22A-23A

Topic 5: 128A-131B, 132A-133B, 134A-135B

Topic 6: 144A-145B, 148A-149B

M1A3.6 Recognize and apply concepts of prime and composite numbers and use divisibility rules for 2, 3, 4, 5, 6, 9 and 10; and recognize and find factors and multiples of natural numbers.

Topic 5: 120A-123B, 124A-125B, 126A-127B, 136A-137B

Topic 7: 164A-165B

Content Standard B: Computation: Students will understand and demonstrate computation skills (no calculator use for straight computation and numbers used in this section should match those listed for Standard A).

Students will be able to:

M1B1.6 Compute and model all four operations with whole numbers, common fractions and decimals to thousandths, and do straight computation with these numbers and operations. Division limited to 2-digit whole number divisors and 3-digit dividends.

Topic 1: 18A-21B

Topic 2: 36A-39B, 40A-41B, 42A-45B

Topic 3: 64A-65B, 70A-73B, 74A-75B

Topic 7: 162A-163B, 166A-169B

Topic 8: 186A-187B, 190A-191B

Topic 9: 204A-205B, 206A-207B

M1B2.6 Create, solve, and justify the solution for multi-step, real-life problems with whole numbers, common fractions and decimals to thousandths, with division limited to 2-digit whole number divisors and 3-digit dividends.

Topic 2: 38, 39B, 40, 41, 41B, 42B, 43, 44, 45B

Topic 3: 84A-87B

Topic 8: 194A-195B

Cluster 2. Shape and Size

Content Standard E: Geometry: Students will understand and apply concepts from geometry.

M2E1.6 Use properties/ attributes (limited to number of sides, number of angles, and length of sides, lines of symmetry, parallel sides, perpendicular sides, and angles relative to 90°) to classify polygons; and to compare and classify rectangular prisms, including cubes; and triangular prisms and draw 2-dimensional shapes.

Topic 11: 274A-277B, 278A-281B, 288A-289B

Topic 18: 454A-457B

M2E3.6 Use ordered pairs as coordinates of points in the first quadrant of a coordinate plane.

Topic 10: 246A-249B

Content Standard F: Measurement: Students will understand and demonstrate measurement skills. Students will be able to:

M2F1.6 Perform conversions between inches, feet and yards; seconds, minutes and hours; pounds and ounces; and cups, pints, quarts and gallons.

Topic 16: 400A-403B, 404A-407B

M2F2.6 Solve problems involving direct measures of length, distance, elapsed time, temperature, capacity, mass and weight.

Topic 16: 400A-403B, 404A-407B, 408A-411B, 412A-413B, 414A-417B, 418A-419B

M2F3.6 Compute the area and perimeter of triangles and rectangles with whole numbers (formula use), and find the volume of rectangular solids using pictures of blocks or gridded diagram with correct units.

Topic 17: 426A-429B, 430A-433B, 434A-437B

Topic 18: 462A-463B

Cluster 3. Mathematical Decision Making

Content Standard C: Data Analysis and Statistics: Students will understand and apply concepts of data analysis. Students will be able to:

M3C1.6 Organize data to find modes, medians, means and ranges for sets of data and displays: Data displays include frequency distributions, tables, line plots, or bar graphs (e.g., given a bar graph, determine the mode, median, range and mean).

Topic 19: 476A-479B, 484A-487B, 488A-489B, 490A-493B, 494A-497B, 500A-501B

Content Standard D: Probability: Students will understand and apply concepts of probability. Students will be able to:

In the following GLEs it is expected that students use area and set models.

M3D1.6 Find the probabilities of simple events and represent them as fractions (simplest form not needed).

Topic 20: 528A-529B, 530A-533B

M3D4.6 Find the number of arrangements of 3 factors with no more than 4 choices per factor (e.g., tree diagram, organized list, pictures).

Topic 1: 24A-25B

Topic 15: 390B, 390, 391, 391B

Topic 20: 520A-523B, 524A-527B, 536A-537B

Cluster 4. Patterns

Content Standard G: Patterns, Relations, and Functions: Students will understand that mathematics is the science of patterns, relationships, and functions. Students will be able to:

M4G1.6 Translate real-life situations into addition, subtraction, multiplication, and division sentences with whole numbers (mix of operations included).

Topic 4: 98A-101B, 102A-105B, 106A-109B, 110A-113B

Topic 15: 372A-375B

M4G3.6 Solve problems involving linear patterns in the form of tables, graphs, words, rules and equations using whole numbers, decimals to hundredths and simple fractions.

Topic 9: 214B, 214, 215, 215B

Topic 11: 290A-291B

Topic 15: 372A-375B, 376A-377B, 378A-379B, 380A-381B, 382A-385B

Content Standard H: Algebra Concepts: Students will understand and apply algebraic concepts. Students will be able to:

M4H1.6 Evaluate formulas with no more than 3 variables using the computation specified in M1B1.6.

Topic 12: 310A-313B

Topic 17: 426A-429B, 430A-433B, 434A-437B, 438A-441B, 442A-443B

Topic 18: 458A-461B, 462A-463B, 464A-465B

M4H6.6 Solve one-step equations using whole numbers with all four operations.

Topic 4: 98A-101B, 102A-105B, 106A-109B, 110A-113B

Topic 9: 212A-213B

Topic 10: 242A-245B

Content Standard K. Communication: Students will reflect upon and clarify their understanding of mathematical ideas and relationships. Students will be able to:

M4K2.6 Read and use statistics, tables, and graphs to communicate ideas and information. Data displays include frequency distributions, tables, line plots, histograms or bar graphs and pie charts/circle graphs (read only).

Topic 11: 290A-291B

Topic 20: 476A-479B, 480A-483B, 484A-487B, 488A-489B, 490A-493B, 494A-497B, 498A-499B, 500A-501B, 502A-505B, 506A-509B