

A Correlation of

Scott Foresman • Addison Wesley

en**Vision**MATH™

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to the

**Montgomery County Public
Schools Curriculum Framework
Grades K-6**

PEARSON

O/M-188

Introduction

This correlation shows the close alignment between **Scott Foresman – Addison Wesley enVisionMATH**, copyright 2009, to **Montgomery County Public Schools Curriculum Framework** (Grades K-6). Correlation page references are to the Teacher's Edition. Lessons in the Teacher's Edition include facsimile pages of the Student Edition.

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

Personalized Curriculum

enVisionMATH™ 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

enVisionMATH™ 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. enVisionMATH™ 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

enVisionMATH™ 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.

Table of Contents

Kindergarten	1
Grade One	5
Grade Two	12
Grade Three	19
Grade Four	27
Grade Five	33
Grade Six	39

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correlated to:
Montgomery County Public Schools Curriculum Framework
(Kindergarten)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
Grade K	
Knowledge of Algebra, Patterns, and Functions	
Content Standard 1.0: Students will algebraically represent, model, analyze, and solve mathematical and real-world problems involving patterns and functional relationships.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.K.1	
.1 discriminate between patterns and random arrangements or designs.	Topic 3: 31G (Math Center), Topic 12: 211H (Math Center), 227–228, 228C, 229–230, 230C, 231–232, 232C
.2 identify, describe, copy, extend, and construct simple patterns using concrete objects.	Topic 3: 33–34, 34C, 35–36, 36C, 37–38, 38C, 39–40, 40C, 41–42, 42C, 43–44, 44C, 45–46, 46C, 48B (Extensions) Topic 12: 225–226, 226C, 229–230, 230C
Knowledge of Geometry	
Content Standard 2.0: Students will apply the properties of one-, two-, and three-dimensional geometric figures to describe, reason, and solve problems about shape, size, position, and motion of objects.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.K.1	
.1 sort by a given attribute and describe likenesses.	Topic 1: 5–6, 6C, 7–8, 8C, 11–12, 12C, 14B (Extensions)
.2 sort a set of objects and explain the sorting rule.	Topic 1: 5–6, 6C, 7–8, 8C, 9–10, 10C, 11–12, 12C, 14B (Extensions)
.3 recognize and describe basic two- and three- dimensional figures, including circle, triangle, rectangle, pyramid, cube, and cylinder.	Topic 7: 115–116, 116C, 117–118, 118C, 125–126, 126C, 127–128, 128C, 129–130, 130C, 131–132, 132C, 134B (Extensions)
.4 identify basic two- and three-dimensional figures in the environment.	Topic 7: 115–116, 116C, 117–118, 118C, 125–126, 126C, 127–128, 128C, 129–130, 130C
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.K.4	
.1 model and use directional and positional words to describe the position of an object.	Topic 1: 17–18, 18C, 19–20, 20C, 21–22, 22C, 23–24, 24C, 25–26, 26C, 27–28, 28C, 30B (Extensions)
Knowledge of Measurements	
Content Standard 3.0: Students will identify attributes, units, and systems of measurement and apply a variety of techniques, formulas, tools, and technology for determining measurements.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
3.K.1	
.1 identify and describe measurable attributes including length and weight.	Topic 9: 153–154, 154C, 155–156, 156C, 157–158, 158C, 161–162, 162C, 163–164, 164C, 167–168, 168C
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.K.2	
.1 use nonstandard units to measure length.	Topic 9: 159–160, 160C
.2 describe when events have happened or will happen.	Topic 16: 300–301, 301C
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.K.3	
.1 use direct comparison and nonstandard units to estimate and measure objects.	Topic 9: 159–160, 160C, 161–162, 162C, 165–166, 166C, 169–170, 170C, 171–172, 172C, 174B (Extensions)
Knowledge of Statistics	
Content Standard 4.0: Students will collect, organize, display, analyze, and interpret data to make decisions and predictions.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following con-tent:	
4.K.1	
.1 ask and answer simple questions to generate data.	Topic 16: 291–292, 292C, 297–298, 298C
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.K.2	
.1 work in a group to organize and display data, using tallies, bar graphs, and pictographs.	Topic 5: 95–96, 96C Topic 16: 289–290, 290C, 293–294, 294C, 295–296, 296C, 297–298, 298C
Knowledge of Number Relationships and Computation	
Content Standard 6.0: Students will describe, represent, and apply numbers and their relationships and will estimate and compute using mental strategies, paper/pencil, and technology.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.K.1	
.1 model single-digit numbers in a variety of ways.	Topic 4: 51–52, 52C, 53–54, 54C, 55–56, 56C, 57–58, 58C, 59–60, 60C, 61–62, 62C, 69–70, 70C Topic 5: 75–76, 76C, 77–78, 78C, 79–80, 80C, 81–82, 82C, 83–84, 84C, 85–86, 86C

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
.2 write, and count with whole numbers: using 1-to-1 correspondence to 31 or beyond.	<p>Topic 4: 51-52, 52C, 53-54, 54C, 55-56, 56C, 57-58, 58C, 59-60, 69-70, 70C</p> <p>Topic 5: 75-76, 76C, 77-78, 78C, 79-80, 80C, 81-82, 82C, 83-84, 84C, 85-86, 86C, 87-88, 88C, 89-90, 90C, 91-92, 92C, 93-94, 94C</p> <p>Topic 12: 213-214, 214C, 215-216, 216C, 217-218, 218C, 219-220, 220C, 223-224, 224C, 234D (Extensions)</p>
.3 use ordinal numbers first through fifth.	Topic 8: 143-144, 144C, 148-149, 149C
.4 identify penny, nickel, dime, and their values.	Topic 13: 237-238, 238C, 239-240, 240C, 241-242, 242C, 243-244, 244C, 245-246, 246C, 247-248, 248C
.5 determine the value of any set of coins through nineteen cents	Topic 13: 237-238, 238C, 239-240, 240C, 241-242, 242C, 245-246, 246C, 247-248, 248C
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.K.2	
.1 create and identify sets with more, less, or an equal number of objects.	<p>Topic 4: 63-64, 64C, 65, 66, 66C, 67-68, 68C</p> <p>Topic 6: 101-102, 102C, 103-104, 104C, 105-106, 106C, 107-108, 108C</p>
.2 match the appropriate number to sets with 0-10 items.	<p>Topic 4: 53-54, 54C, 57-58, 58C, 69-70, 70C</p> <p>Topic 5: 75-76, 76C, 79-80, 80C, 85-86, 86C, 91-92, 92C</p> <p>Topic 6: 109-110, 110C</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.K.3	
.1 recognize sets as having an odd or even number of elements.	Topic 12: 221-222, 222C
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.K.4	
.1 use concrete objects to combine and remove objects from a set and describe the results.	<p>Topic 10: 177-178, 178C, 179-180, 180C, 181-182, 182C, 183-184, 184C, 185-186, 186C, 187-188, 188C, 189-190, 190C</p> <p>Topic 11: 195-196, 196C, 197-198, 198C, 199-200, 200C, 201-202, 202C, 203-204, 204C, 205-206, 206C, 207-208, 208C, 210B (Extensions)</p>

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By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.K.7	
.1 estimate quantities less than 20.	Topic 6: 112B (Extensions)

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Correlated to:
Montgomery County Public Schools Curriculum Framework
(Grade 1)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
GRADE 1	
Knowledge of Algebra, Patterns, and Functions	
Content Standard 1.0: Students will algebraically represent, model, analyze, and solve mathematical and real-world problems involving patterns and functional relationships.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.1.1	
.1 recognize, describe, extend, and create repeating patterns using models.	Topic 9: 243–246, 246B, 247–250, 250B, 251–254, 254B, 255–258, 258B
.2 copy, continue, and record patterns with actions, words, and objects; translate a pattern into another form	Topic 6: 168B (Extensions) Topic 7: 192B (Extensions) Topic 9: 243–246, 246B, 247–250, 250B, 251–254, 254B, 255–258, 258B Topic 10: 277–278, 278B, 279–282, 282B, 291–294, 294B, 295–298, 298B Topic 16: 509–512, 512B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.1.2	
.1 write and solve number sentences derived from problem situations that express relationships involving addition and subtraction (+, –, =).	Topic 3: 63–66, 66B, 67–70, 70B, 75–78, 78B Topic 4: 95–98, 98B, 99–102, 102B, 103–106, 106B Topic 5: 135–138, 138B Topic 6: 147–150, 150B, 151–154, 154B, 155–158, 158B, 161, 161B, 163–166, 166B Topic 7: 172–174, 174B, 175–178, 178B, 179–182, 182B, 183–186, 186B, 187–190, 190B Topic 11: 319–322, 322B Topic 15: 473–476, 476B

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
continued	<p>Topic 16: 485–488, 488B, 489–492, 492B, 493–496, 496B, 500, 500B, 504, 504B</p> <p>Topic 17: 517–520, 520B, 521–524, 524B, 524B, 525–528, 528B, 529–532, 532B, 533–536, 536B</p> <p>Topic 20: 621–624, 624B, 633–636, 636B, 642B (Extensions)</p>
.2 create, compare, and describe sets of objects as having more, less, or equal amounts.	<p>Topic 2: 31–34, 34B, 35–38, 38B, 39–42, 42B, 43–46, 46B</p> <p>Topic 12: 331–334, 334B, 339–342, 342B</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.1.4	
.1 locate whole numbers on a number line.	<p>Topic 2: 39–42, 42B</p> <p>Topic 12: 347–350, 350B</p>
Knowledge of Geometry	
Content Standard 2.0: Students will apply the properties of one-, two-, and three-dimensional geometric figures to describe, reason, and solve problems about shape, size, position, and motion of objects.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.1.1	
.1 identify and represent two-dimensional (plane) figures including circle, square, triangle, rectangle, and hexagon and describe their attributes.	Topic 8: 195–198, 198B, 199–202, 202B, 203–206, 206B, 207–210, 210B, 223–226, 226B, 240D (Extensions)
.2 identify and describe the attributes of three-dimensional (solid) figures, including sphere, cube, cylinder, and cone.	Topic 8: 227–230, 230B, 231–234, 234B, 235–238, 238B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.1.3	
.1 draw triangles, rectangles, squares, and circles	<p>Topic 8: 193G, 193H, 195, 197, 198, 198B, 199, 201, 203–206, 206B, 207–210, 210B, 240D (Extensions)</p> <p>Topic 9: 251–254, 254B</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.1.4	
.1 compare the size of two-dimensional figures.	Topic 8: 193G, 193H, 195, 197, 198, 198B, 199, 201, 203–206, 206B, 207–210, 210B, 240D (Extensions)
2.1.5	
.1 identify shapes that appear congruent.	Topic 8: 215–218, 218B

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Knowledge of Measurements	
Content Standard 3.0: Students will identify attributes, units, and systems of measurement and apply a variety of techniques, formulas, tools, and technology for determining measurements.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.1.1	
.1 identify and describe measurable attributes including weight, capacity, length, time.	<p>Topic 14: 395–398, 398B, 399–402, 402B, 407–410, 410B, 411–414, 414B, 419–422, 422B, 423–426, 426B, 427–430, 430B, 431–434, 434B, 435–438, 438B, 439–442, 442B</p> <p>Topic 15: 453–456, 456B, 457–460, 460B, 461–464, 464B, 465–468, 468B, 469–472, 472B</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.1.2	
.1 use nonstandard units to estimate and measure weight and capacity.	Topic 14: 419–422, 422B, 431–434, 434B, 450A (Extensions)
.2 estimate and measure length in inches.	Topic 14: 407–410, 410B
.3 select an appropriate tool, including rulers, clocks (to the hour and one half and one quarter hour), calendars, and scales to measure a specific attribute.	<p>Topic 14: 399–402, 402B, 407–410, 410B, 411–414, 414B, 435–438, 438B, 439–442, 442B, 450B (Extensions)</p> <p>Topic 15: 453–456, 456B, 457–460, 460B, 461–464, 464B, 469–472, 472B</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.1.3	
.1 compare the length, weight, and capacity of two or more objects by using direct comparison or nonstandard units.	Topic 14: 395–399, 399B, 399–402, 402B, 403–406, 406B, 419–422, 422B, 431–434, 434B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.1.4	
.1 solve problems using non-standard measurement concepts and procedures.	Topic 14: 395–399, 399B, 399–402, 402B, 403–406, 406B, 419–422, 422B, 431–434, 434B, 450A (Extensions)
Knowledge of Statistics	
Content Standard 4.0: Students will collect, organize, display, analyze, and interpret data to make decisions and predictions.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following con-tent:	
4.1.1	
.1 gather and organize relevant data to answer a simple question.	<p>Topic 5: 135–137, 138B</p> <p>Topic 16: 509–512, 512B, 577–580, 580B</p>

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By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.1.2	
.1 organize and display data using tallies, bar graphs, and pictographs (using a one-one correspondence between actual data and representation, i.e., one symbol equals one unit).	Topic 18: 545–548, 548B, 549–552, 552B, 565–568, 568B, 569–572, 572B, 582B (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.1.3	
.1 interpret data taken from real/concrete graphs and pictographs in terms such as most and least.	Topic 18: 541–544, 544B, 545–548, 548B, 549–552, 552B, 561–564, 564B, 565–568, 568B, 569–572, 572B, 582B (Extensions)
Knowledge of Number Relationships and Computation	
Content Standard 6.0: Students will describe, represent, and apply numbers and their relationships and will estimate and compute using mental strategies, paper/pencil, and technology.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.1.1	
.1 model one- and two-digit whole numbers using a variety of groupings.	<p>Topic 1: 3–6, 6B, 7–10, 10B, 11–14, 14B, 15–18, 19B, 19–22, 22B, 23–25, 26B, 28B (Extensions)</p> <p>Topic 2: 31–34, 34B, 35–38, 38B</p> <p>Topic 3: 51–54, 54B, 55–58, 58B, 59–62, 62B</p> <p>Topic 4: 83–86, 86B, 87–90, 90B, 91–94, 94B</p> <p>Topic 5: 119–122, 122B, 123–126, 126B, 127–130, 130B, 131–134, 134B</p> <p>Topic 10: 263–266, 266B, 267–270, 270B, 271–274, 274B, 279–282, 282B, 283–286, 286B</p> <p>Topic 11: 303–306, 306B, 307–310, 310B, 311–314, 314B, 315–318, 318B, 319–322, 322B, 323–326, 326B</p>
.2 read and write numerals to 100 and words that represent numbers up to ten.	<p>Topic 1: 3–6, 6B, 7–10, 10B, 11–14, 14B, 15–18, 19B, 19–22, 22B, 23–25, 26B, 28B (Extensions)</p> <p>Topic 2: 31–34, 34B, 35–38, 38B</p> <p>Topic 3: 51–54, 54B, 55–58, 58B, 59–62,</p>

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
continued	<p>62B</p> <p>Topic 4: 83–86, 86B, 87–90, 90B, 91–94, 94B</p> <p>Topic 5: 119–122, 122B, 123–126, 126B, 127–130, 130B, 131–134, 134B</p> <p>Topic 10: 263–266, 266B, 267–270, 270B, 271–274, 274B, 275–278, 278B, 279–282, 282B, 283–286, 286B</p> <p>Topic 11: 303–306, 306B, 307–310, 310B, 311–314, 314B, 315–318, 318B, 319–322, 322B, 323–326, 326B</p> <p>Topic 12: 359–362, 362B</p>
.3 represent one-half, one-third, and one-fourth in symbolic notation and pictures.	Topic 19: 585–588, 588B, 589–592, 592B, 593–596, 596B, 597–600, 600B, 601–604, 604B, 606B (Extensions)
.4 use ordinal numbers first through tenth.	Topic 10: 287–290, 290B
.5 name and determine the value of any set of coins (penny, nickel, dime, and quarter) with a value through one dollar.	Topic 13: 367–370, 370B, 371–374, 374B, 375–378, 378B, 379–382, 382B, 383–386, 386B, 392B (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.1.2	
.1 compare and order equal and unequal numbers and sets.	<p>Topic 2: 31–34, 34B, 35–38, 38B, 39–42, 42B, 43–46, 46B</p> <p>Topic 12: 331–334, 334B, 339–342, 342B, 343–346, 346B, 347–350, 350B, 351–354, 354B, 355–358, 358B, 359–362, 362B</p>
.2 count to determine the number of items in a set (1’s, 2’s, 5’s to 30 and 10’s to 100) using various methods.	Topic 10: 271–274, 274B, 279–282, 282B, 275–278, 278B
.3 identify a number that is one more, one less, before or after another number; identify a number or numbers located between two other numbers.	Topic 12: 331–334, 334B, 351–354, 354B
.4 model 10 more/less to 100.	Topic 12: 331–334, 334B, 355–358, 358B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.1.3	
.1 identify odd and even numbers using objects.	Topic 10: 283–286, 286B

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By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.1.4	
.1 demonstrate mastery of addition and subtraction fact families (sums through 10).	Topic 17: 524B (Intervention)
.2 develop, use, and explain strategies to add and subtract single-digit whole numbers.	<p>Topic 6: 147–150, 150B, 151–154, 154B, 155–158, 158B, 159–162, 162B</p> <p>Topic 7: 172–174, 174B, 175–178, 178B, 179–182, 182B, 183–186, 186B</p> <p>Topic 16: 481–484, 484B, 485–488, 488B, 489–492, 492B, 500, 500B, 504, 504B</p> <p>Topic 17: 517–520, 520B, 521–524, 524B, 525–528, 528B, 529–532, 532B</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.1.5	
.1 model the concept of addition.	<p>Topic 3: 51–54, 54B, 55–58, 58B, 59–62, 62B, 63–66, 66B, 67–70, 70B, 75–78, 78B</p> <p>Topic 4: 107–110, 110B</p> <p>Topic 5: 127–130, 130B, 131–134, 134B</p> <p>Topic 6: 163–166, 166B</p> <p>Topic 10: 267–270, 270B</p> <p>Topic 12: 331–334, 334B</p> <p>Topic 17: 533–536, 536B</p>
.2 model the concept of subtraction.	<p>Topic 4: 83–86, 86B, 87–90, 90B, 91–94, 94B, 95–98, 98B, 99–102, 102B, 103–106, 106B, 107–110, 110B, 111–114, 114B</p> <p>Topic 5: 127–130, 130B, 131–134, 134B</p> <p>Topic 7: 172–174, 174B, 187–190, 190B</p> <p>Topic 10: 267–270, 270B</p> <p>Topic 12: 331–334, 334B</p> <p>Topic 17: 533–536, 536B</p>

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.3 find sums and differences using counting strategies such as counting on and counting back.	Topic 6: 159–162, 162B Topic 7: 172–174, 174B, 179–182, 182B Topic 16: 485–488, 488B, 489–492, 492B
.4 add and subtract one- and two-digit numbers without regrouping. .4 continued	Topic 20: 609–612, 612B, 613–616, 616B, 617–620, 620B, 621–624, 624B, 6254–628, 628B, 629–632, 632B, 633–636, 636B, 642D (Extensions)
.5 estimate sums and differences of one- and two-digit numbers.	Topic 13: 387–390, 390B Topic 16: 487 Topic 17: 531 Topic 20: 623, 631, 642D (Extensions)
.6 solve addition and subtraction problems involving money through one dollar.	Topic 13: 387–390, 390B, 392B (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.1.6	
.1 model and use the commutative property for addition.	Topic 3: 71–74, 74B
.2 explain and apply the concept of inverse operation as it relates to addition and subtraction.	Topic 4: 107–110, 110B Topic 7: 175–178, 178B, 179–182, 182B, 183–186, 186B Topic 17: 517–520, 520B, 521–524, 524B, 525–528, 528B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.1.7	
.1 recognize when solutions to problems are reasonable.	Topic 13: 387–390, 390B Topic 14: 413, 437, 441 Topic 20: 623, 631

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Montgomery County Public Schools Curriculum Framework
(Grade 2)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
GRADE 2	
Knowledge of Algebra, Patterns, and Functions	
Content Standard 1.0: Students will algebraically represent, model, analyze, and solve mathematical and real-world problems involving patterns and functional relationships.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.2.1	
.1 recognize, describe, extend, and create repeating and increasing patterns using models and numbers.	Topic 4: 127–130, 130B Topic 6: 187–190, 190B Topic 17: 527–530, 530A, 543–546, 546B Topic 20: 635–638, 638B
.2 use patterns to continue numerical sequences and identify the rule.	Topic 4: 127–130, 130B Topic 6: 187–190, 190B, 527–530, 530A, 543–546, 546B, 635–638, 638B Topic 17: 527–530, 530A, 543–546, 546B Topic 20: 635–638, 638B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.2.2	
.1 model, represent, and interpret number relationships to solve problems involving addition and subtraction (+, -, <, >, =).	Topic 2: 35–38, 38B, 39–42, 42B, 43–46, 46B, 47–50, 50B, 53, 57–58, 58B, 61, 62B, 63–66, 66B Topic 3: 71–74, 74B, 75–78, 78B, 79–82, 82B, 83–86, 86B, 87–90, 90C Topic 10: 298
.2 relate problem situations to number sentences involving addition and subtraction.	Topic 2: 38, 42, 42B (Enrichment Master), 46, 50, 50B (Practice), 54, 63–66, 66B Topic 3: 74, 78, 82, 86, 90 Topic 10: 298
.3 generate and solve problems based on various number sentences.	Topic 2: 42A (Quick Check Master), 66A Topic 3: (Quick Check Master), 78A (Quick Check Master), 86A (Quick Check Master), 90A (Quick Check Master) Topic 10: 298A (Quick Check Master)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.2.3	
.1 identify the missing number in a number sentence.	<p>Topic 2: 35–38, 38B, 39–42, 42B, 43–46, 46B, 47–50, 50B, 53, 57–58, 58B, 61, 62B, 63–66, 66B</p> <p>Topic 3: 71–74, 74B, 75–78, 78B</p>
Knowledge of Geometry	
Content Standard 2.0: Students will apply the properties of one-, two-, and three-dimensional geometric figures to describe, reason, and solve problems about shape, size, position, and motion of objects.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.2.1	
.1 describe and classify plane and solid geometric shapes (circle, triangle, square, rectangle, sphere, pyramid, and rectangular prism) according to such attributes as the number and shape of faces, edges, and vertices.	Topic 11: 315–318, 318B, 319–322, 322B, 343–345, 346B
.2 put shapes together and take them apart to form other shapes.	Topic 11: 323–326, 326B, 327–330, 330B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.2.3	
.1 make solid figures including cubes, rectangular prisms, spheres, cylinders, cones, and pyramids.	Topic 11: 348B (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.2.4	
.1 identify and model symmetry with concrete materials and drawings.	Topic 11: 339–342, 342B
.2 identify the line of symmetry in figures and objects with symmetry.	Topic 11: 339–342, 342B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.2.5	
.1 identify and model congruence with concrete materials and drawings.	Topic 11: 331–334, 334B

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
Knowledge of Measurements	
Content Standard 3.0: Students will identify attributes, units, and systems of measurement and apply a variety of techniques, formulas, tools, and technology for determining measurements.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.2.1	
.1 identify and describe measurable attributes including length, area, weight, volume/ capacity, and temperature.	<p>Topic 13: 383–386, 386B, 387–390, 390B, 391–394, 394B, 395–398, 398B</p> <p>Topic 14: 419–422, 422B, 423–426, 426B, 427–430, 430B, 435–438, 438B, 439–442, 442B, 443–446, 446B</p> <p>Topic 15: 467–470, 470A</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.2.2	
.1 use measurement tools appropriately.	<p>Topic 13: 391–394, 394B, 395–398, 398B</p> <p>Topic 14: 427–430, 430B, 435–438, 438B, 439–442, 442B, 443–446, 446B</p> <p>Topic 15: 451–454, 454A, 455–459, 459B, 463–466, 466B, 467–470, 470A, 476C (Extensions)</p>
.2 measure in nonstandard and standard units (inches [to ½ inch increments], feet, centimeters, grams, kilograms, ounces, pounds, degrees Celsius, degrees Fahrenheit, hours, minutes, cups, and quarts).	<p>Topic 13: 383–386, 386B, 391–394, 394B, 395–398, 398B</p> <p>Topic 14: 419–422, 422B, 435–438, 438B, 439–442, 442B, 443–446, 446B</p> <p>Topic 15: 451–454, 454A, 455–459, 459B, 467–470, 470A, 476C (Extensions)</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.2.3	
.1 estimate and measure length, weight, temperature, time, and capacity to the nearest whole unit.	<p>Topic 13: 391–394, 394B, 395–398, 398B</p> <p>Topic 14: 435–438, 438B, 439–442, 442B, 443–446, 446B</p> <p>Topic 15: 451–454, 454A, 455–458, 458B, 459–462, 462B, 460–464, 464A, 467–470, 470B, 476C (Extensions)</p>

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.2.4	
.1 solve problems using non-standard and standard measurement concepts and procedures.	<p>Topic 13: 383–386, 386B, 391–394, 394B, 395–398, 398B</p> <p>Topic 14: 423–426, 426B, 435–438, 438B, 439–442, 442B, 443–446, 446B</p> <p>Topic 15: 451–454, 454A, 467–470, 470A</p>
Knowledge of Statistics	
Content Standard 4.0: Students will collect, organize, display, analyze, and interpret data to make decisions and predictions.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following con-tent:	
4.2.1	
.1 gather and organize data from surveys and classroom experiments.	Topic 16: 483–486, 486B, 487–490, 490B, 508D (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.2.2	
.1 organize and display data in more than one way.	Topic 16: 479–482, 482B, 508D (Extensions), 508E (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.2.3	
.1 interpret data from tally charts, pictographs, and bar graphs in terms of more, less, and equal.	<p>Topic 16: 479–482, 482B, 483–486, 486B, 487–490, 490B, 508D (Extensions), 508E (Extensions)</p> <p>Topic 18: 583–586, 586A, 588B (Extensions)</p>
Knowledge of Number Relationships and Computation	
Content Standard 6.0: Students will describe, represent, and apply numbers and their relationships and will estimate and compute using mental strategies, paper/pencil, and technology.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.2.1	
.1 model multi-digit numbers.	Topic 17: 511–514, 514B, 515–518, 518B, 519–522, 522B
.2 read and write numerals, including those that represent common fractions.	Topic 17: 511–514, 514B, 515–518, 518B, 519–522, 522B
	Topic 12: 351–354, 354B, 355–358, 358B, 359–362, 362B, 363–366, 366B, 367–370, 370B, 371–374, 374B, 376D (Extensions)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
.3 model common fractions.	Topic 12: 351–354, 354B, 355–358, 358B, 359–362, 362B, 363–366, 366B, 367–370, 370B, 371–374, 374B, 376D (Extensions)
.4 read and write words that represent numbers less than 1,000.	Topic 4: 107–110, 110B, 140D (Extensions) Topic 17: 511–514, 514B, 515–518, 518B, 519–522, 522B, 523–526, 526B
.5 express two- and three-digit numbers in expanded notation.	Topic 17: 519–522, 522B
.6 determine the value of currency through ten dollars	Topic 5: 143–146, 146B, 147–150, 150B, 151–154, 154B, 155–158, 158B, 159–162, 162B, 163–166, 166B, 168B (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.2.2	
.1 identify missing numbers in a sequence to 100.	Topic 4: 119–122, 122B, 123–126, 126B
.2 identify and use 10 more and 10 less.	Topic 6: 171–174, 174A Topic 17: 527–530, 530B
.3 compare and order whole numbers less than 1,000, applying place value concepts and using the symbols $<$, $>$, and $=$.	Topic 4: 111–114, 114B, 115–118, 118B, 119–122, 122B, 123–126, 126B Topic 17: 531–534, 534B, 535–538, 538B, 539–542, 542B, 543–546, 546B
.4 use, model, and label place value positions of 1's, 10's, and 100's.	Topic 17: 515–518, 518B, 519–522, 522B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.2.3	
.1 generalize ways to determine even or odd.	Topic 4: 131–134, 134B
.2 describe numbers as even or odd.	Topic 4: 131–134, 134B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.2.4	
.1 demonstrate mastery of basic addition/subtraction fact families (sums through 18).	Topic 1: 23–26, 26B
.2 use concrete objects to model multiplication and division facts.	Topic 19: 591–594, 594B, 595–598, 598B, 599–602, 602B, 603, 607, 611–614, 614B 627–630, 630B, 631–634, 634B
.3 relate mathematical situations involving multiplication and division to symbolic notation and write number sentences.	Topic 19: 591–594, 594B, 595–598, 598B, 599–602, 602B, 603–606, 606B, 610A (Quick Check Master)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
.4 relate mathematical situations to given mathematical expressions.	<p>Topic 2: 42A (Quick Check Master), 66A</p> <p>Topic 3: (Quick Check Master), 78A (Quick Check Master), 86A (Quick Check Master), 90A (Quick Check Master)</p> <p>Topic 10: 298A (Quick Check Master)</p> <p>Topic 19: 599–602, 602B, 603–606, 606A (Quick Check Master), 606B, 611–613, 613B</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.2.5	
.1 model two-digit addition and subtraction using manipulatives.	<p>Topic 9: 263–266, 266B</p> <p>Topic 17: 523–526, 526B</p>
.2 add and subtract two- and three-digit numbers using alternative strategies.	<p>Topic 8: 235–238, 238B, 239–242, 242B, 243–246, 246B, 248D (Extensions)</p> <p>Topic 9: 267–270, 270B, 280B (Extensions)</p> <p>Topic 10: 291–294, 294B, 312B, 303–306, 306B (Extensions)</p> <p>Topic 15: 471–473, 474B</p> <p>Topic 17: 523–526, 526B</p>
.3 add two- and three-digit numbers with regrouping.	<p>Topic 8: 231–234, 234B, 235–238, 238B, 239–242, 242B, 243–246 246B, 248D (Extensions)</p> <p>Topic 10: 291–294, 294B</p> <p>Topic 15: 471–473, 474B</p>
.4 model repeated addition (multiplication) and sharing equally (division) in a variety of ways, including dividing sets into two, three, or four equal parts.	<p>Topic 19: 591–594, 594B, 595–598, 598B, 599–602, 602B, 607–610, 610B, 611–613, 613B</p>
.5 estimate to check the reasonableness of the results of computations.	<p>Topic 10: 285, 290, 297, 301</p> <p>Topic 18: 561</p>
.6 solve addition and subtraction problems involving money through ten dollars.	<p>Topic 10: 283–286, 286B, 287–290, 290B, 295–298, 298B, 299–302, 302B, 307–310, 310B, 312B (Extensions)</p>

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.2.7	
.1 use a variety of strategies to solve addition and subtraction problems.	Topic 9: 280B (Extensions) Topic 10: 312B (Extensions) Topic 17: 523–526, 526B
.2 estimate quantities to 100.	Topic 17: 548B (Extensions)

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Correlated to:
Montgomery County Public Schools Curriculum Framework
(Grade 3)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
GRADE 3	
Knowledge of Algebra, Patterns, and Functions	
Content Standard 1.0: Students will algebraically represent, model, analyze, and solve mathematical and real-world problems involving patterns and functional relationships.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.3.1	
.1 identify, describe, extend, and create a variety of non-numeric patterns.	Topic 5: 206B, 206–207, 207B Topic 9: 218B, 218–221, 221B Topic9: 218B, 218–221, 221B, 360B, 360–361, 361B, 412B, 412–413, 413B, 436B, 436–437, 437B
.2 identify, describe, extend, and create a variety of numeric patterns.	Topic 5: 122B, 122–124, 125B, 126B, 126–127, 127B, 128B, 128–129, 129B, 130B, 130–131, 131B Topic 9: 208B, 208–209, 209B, 210B, 210–211, 211B, 212B, 212–214, 214B, 227
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.3.2	
.1 represent relationships of quantities in the form of mathematical expressions, equations, or inequalities (+, −, <, >, =, ×, ÷).	Topic 3: 71 Topic 6: 147 Topic 8: 189 Topic 13: 315
.2 solve problems involving numeric equations or inequalities.	Topic 8: 189 Topic 13: 315
.3 select appropriate operational (+, −, ×, ÷) and relational symbols (<, >, =, ≠) to express relationships and solve problems.	Topic 8: 189 Topic 13: 315
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.3.4	
.1 plot points to represent whole numbers and fractions with denominators of 2, 3, and 4 on a number line.	Topic 20: 468B, 468–471, 471B, 487F (Extensions)
.2 locate points on a simple grid.	Topic 20: 468B, 468–471, 471B, 487F (Extensions)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
Knowledge of Geometry	
Content Standard 2.0: Students will apply the properties of one-, two-, and three-dimensional geometric figures to describe, reason, and solve problems about shape, size, position, and motion of objects.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.3.1	
.1 identify, describe, and classify polygons, including pentagons, hexagons, and octagons.	Topic 10: 246B, 246–247, 247B, 248B, 248–249, 249B, 250B, 250–251, 251B, 252B, 252–253, 253B, 257A (Extensions)
.2 identify, describe, and classify common three-dimensional geometric objects (including cube, rectangular prism, pyramid, prism, sphere, cone, cylinder) and relate them to their two-dimensional counterparts (square, rectangle, triangle, circle).	Topic 10: 234B, 234–237, 237B, 238B, 238–241, 241B, 252B, 252–253, 253B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.3.2	
.1 identify right angles in geometric figures or in the environment.	Topic 10: 244B, 244–245, 245B, 257A (Extensions)
.2 determine whether angles found in geometric figures and in the environment are greater than, equal to, or less than a right angle.	Topic 10: 244B, 244–245, 245B, 248B, 248–249, 249B, 257A (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.3.3	
.1 draw geometric figures using tools and technology.	Topic 10: 246B, 247B, 251B
.2 construct with blocks a solid to match a given picture or model.	Related topic is covered by the following: Topic 10: 241 Topic 16: 380B
.3 recognize a three-dimensional object from different perspectives.	Topic 10: 234B, 234–237, 237B, 238–241, 241B, 342B, 342–343, 343B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.3.4	
.1 describe and represent slides, flips, and turns using pictures and simple objects.	Topic 11: 260B, 260–263, 263B
.2 identify, describe, and represent symmetry of geometric figures and real-world objects.	Topic 11: 264B, 264–265, 265B, 266B, 266–267, 267B, 268B, 268–269, 269B

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.3.5	
.1 identify, describe, and represent congruency of geometric figures and real-world objects.	Topic 11: 260B, 260–261, 261B
Knowledge of Measurements	
Content Standard 3.0: Students will identify attributes, units, and systems of measurement and apply a variety of techniques, formulas, tools, and technology for determining measurements.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.3.2	
.1 choose the appropriate units and measurement tools.	Topic 14: 334B, 334–337, 337B, 338B, 338–339, 339B, 340B, 340–341, 341B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.3.3	
.1 estimate and/or measure length (inches, feet, yards, centimeters, meters), weight (grams, kilograms, ounces, pounds), time (minutes, hours, days, weeks, months, years), and capacity (cups, pints, quarts, gallons, liters).	<p>Topic 14: 328B, 328, 328–331, 331B, 332B, 332–333, 333B, 338B, 340B, 340–341, 341B, 347A (Extensions)</p> <p>Topic 15: 350B, 350–351, 351B, 352B, 352–354, 355B, 356B, 356–357, 357B, 365A (Extensions)</p> <p>Topic 17: 392B, 392–394, 395B, 396B, 396–397, 397B, 400B, 400–401, 401B, 404B, 404–405, 405B</p>
.2 convert between inches, feet, and yards.	<p>Topic 14: 334B, 334–337, 337B</p> <p>Topic 15: 355</p>
.3 model the concepts of area and perimeter using concrete materials, nonstandard and standard units.	Topic 16: 368B, 368–369, 369B, 370B, 370–371, 371B, 372B, 372–373, 373B, 376B, 376–377, 377B, 378B, 378–379, 379B, 383, 384B, 384–385, 385B, 389E (Extensions)
.4 estimate and count to find perimeter, area, and volume of figures and real-world objects.	Topic 16: 368B, 368–369, 369B, 370B, 370–371, 371B, 372B, 372–373, 373B, 376B, 376–377, 377B, 378B, 378–379, 379B, 380B, 380–383, 383B, 384B, 384–385, 385B, 389E (Extensions)
.5 estimate and determine elapsed time using a clock or calendar.	Topic 17: 400B, 400–401, 401B

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.3.4	
.1 use length, capacity, weight, temperature, and time to solve problems.	<p>Topic 14: 328B, 328, 328–331, 331B, 332B, 332–333, 333B, 338B, 340B, 340–341, 341B, 347A (Extensions)</p> <p>Topic 15: 350B, 350–351, 351B, 352–355, 355B, 356B, 356–357, 357B, 360B, 360–361, 361B, 365A (Extensions)</p> <p>Topic 17: 392B, 392–394, 395B, 396–397, 397B, 398B, 398–399, 399B, 400B, 400–401, 401B, 402B, 402–403, 403B, 404B, 404–405, 405B</p>
Knowledge of Statistics	
Content Standard 4.0: Students will collect, organize, display, analyze, and interpret data to make decisions and predictions.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.3.1	
.1 gather and organize data from a variety of sources.	Topic 20: 458B, 458–459, 459B, 464B, 464–465, 465B, 487F (Extensions), 487G (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.3.2	
.1 organize and display data using tables, pictographs, and bar graphs using appropriate scales e.g., one symbol equals 100 units.	Topic 20: 458B, 458–459, 459B, 460B, 460–463, 463B, 464B, 464–465, 465B, 466B, 466–467, 467B, 482B, 482–483, 483B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.3.3	
.1 interpret and compare data from tables, pictographs, and bar graphs.	Topic 20: 458B, 458–459, 459B, 460B, 460–463, 463B, 466B, 466–467, 467B, 482–483, 483B
Knowledge of Probability	
Content Standard 5.0: Students will use experimental methods and theoretical reasoning to determine probabilities, to make predictions, and to solve problems about events whose outcomes involve random variation.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
5.3.1	
.1 list the possible outcomes for a simple event.	<p>Topic 9: 231A (Extensions)</p> <p>Topic 20: 472B, 476B, 476–477, 477B, 478B, 478–481, 481B, 487F (Extensions)</p>

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
5.3.2	
.1 describe the likelihood of an event by using certain, impossible, more likely, less likely, and equally likely.	Topic 20: 472B, 472–475, 475B, 487G (Extensions)
Knowledge of Number Relationships and Computation	
Content Standard 6.0: Students will describe, represent, and apply numbers and their relationships and will estimate and compute using mental strategies, paper/pencil, and technology.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.3.1	
.1 read and write the word names for numbers to 10,000.	Topic 1: 4B, 4–5, 5B, 6B, 6–7, 7B
.2 represent fractions and mixed numbers using numerals and a variety of models.	Topic 12: 276B, 276–277, 277B, 278B, 278–279, 279B, 280B, 280–281, 281B, 282B, 282–283, 283B, 287B, 288B, 288–289, 289B, 290B, 290–293, 293B
.3 express three- and four-digit numbers in expanded notation.	Topic 1: 4B, 4–5, 5B, 6B, 6–7, 7B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.3.2	
.1 identify equivalent fractions using models and pictures.	Topic 12: 284B, 284–286, 287B
.2 compare and order whole numbers through 10,000.	Topic 1: 12B, 12–15, 15B, 16B, 16–17, 17B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.3.4	
.1 develop, use, and explain strategies to multiply and divide multiplication and division fact families.	Topic 8: 184B, 184–185, 185B, 186B, 186–188, 189B, 190–191, 191B, 192B, 192–193, 193B
.2 write a story problem that models a mathematical expression.	Topic 5: 116B, 116–117, 117B Topic 7: 170B, 170–171, 171B
3. demonstrate mastery of multiplication facts for 0, 1, 2, 5, 10.	Topic 5: 122B, 122–124, 125B, 126B, 126–127, 127B

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
4.write a mathematical expression that models a story problem	<p>Topic 3: 71</p> <p>Topic 4: 98B, 98–100, 101B</p> <p>Topic 6: 147</p> <p>Topic 8: 189, 196B, 196–198, 199B</p> <p>Topic 9: 216A, 216–217, 217B, 222B, 222–223, 223B</p> <p>Topic 18: 426B, 426–428, 429B</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.3.5	
.1 select appropriate methods of computation for given situations including the use of technology.	<p>Topic 2: 36B, 36–37, 37B, 39, 54</p> <p>Topic 3: 72B, 72–73, 73B</p> <p>Topic 8: 199</p> <p>Topic 18: 412B, 412–413, 413B, 429</p> <p>Topic 19: 436B, 436–437, 437B, 440B, 440–443, 443B, 444B, 444–445, 445B, 446B, 446–447, 447B, 448B, 448–450, 451B</p>
.2 subtract two- and three-digit numbers with regrouping.	<p>Topic 3: 68B, 68–69, 69B</p> <p>Topic 4: 86B, 86–87, 87B, 90B, 90–91, 91B, 92B, 92–94, 95B</p>
.3 model and explain multiplication in a variety of ways, including rectangular arrays and skip counting.	<p>Topic 5: 108B, 108–109, 109B, 110B, 110–113, 113B, 114B, 114–115, 115B, 116B, 116–117, 117B, 125</p> <p>Topic 18: 416B, 416–417, 417B, 418B, 418–419, 419B, 420B, 420–421, 421B</p>
.4 model and explain division in a variety of ways, including repeated subtraction, rectangular arrays, and by its inverse relationship to multiplication.	<p>Topic 7: 164B, 164–165, 165B, 166B, 166–167, 169B, 172B, 172–173, 173B</p> <p>Topic 19: 446B, 446–447, 447B</p>
.5 estimate sums and differences of whole numbers less than 1,000.	<p>Topic 2: 44, 44–45, 45B, 48, 54B, 54–55</p> <p>Topic 3: 74B, 74–77, 77B</p> <p>Topic 4: 92B, 92–94</p>

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
.6 identify, name, compare, and determine the value of a given set of currency through one hundred dollars and use this knowledge to solve problems, including adding and subtracting money and counting change.	Topic 1: 18B, 18–21, 21B, 22B, 22–23, 23B, Topic 2: 58–59 Topic 3: 72–73 Topic 13: 308B, 308–311, 311B, 312B, 312–314, 315B, 316B, 316–318
.7 solve addition, subtraction, and simple multiplication and division problems using money.	Topic 2: 58–59 Topic 3: 72–73 Topic 5: 132B, 132–133, 133B Topic 13: 312B, 312–314, 315B
.8 multiply and divide multi-digit numbers by one-digit numbers.	Topic 18: 416B, 416–417, 417B, 418B, 418–419, 419B, 420B, 420–421, 421B, 422B, 422–424, 425B, 426A, 426–429, 429B Topic 19: 436A, 436–437, 437B, 438B, 438–439, 439B, 448B, 448–449, 449B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.3.6	
.1 model and use the identity and commutative properties for addition and multiplication to solve problems.	Topic 2: 32B, 32–33, 33B, 110B, 110–112 Topic 4: 95 Topic 5: 130B, 130–131, 131B Topic 18: 425
.2 explain and apply the concept of inverse operation as it relates to multiplication and division.	Topic 8: 184B, 184–185, 185B, 186B, 186–188, 189B, 190–191, 191B, 192B, 192–193, 193B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.3.7	
.1 use a variety of strategies to solve simple multiplication and division problems.	Topic 5: 116B, 116–117, 117B, 122B, 122–123, 123B, 126B, 126–127, 127B, 128B, 128–129, 129B, 130B, 130–131, 131B Topic 6: 140B, 140–141, 141B, 142B, 142–143, 143B, 144B, 144–147, 147B, 148B, 148–149, 149B, 150B, 150–151, 151B, 152B, 152–153, 153B, 154B, 154–157, 157B Topic 8: 186B, 186–189, 189B, 190B, 190–191, 191B, 192B, 192–193, 193B, 194B, 194–195, 195B

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
.2 use estimation techniques to determine solutions to problems with whole numbers.	<p>Topic 2: 44, 44-45, 45B, 48, 54B, 54-55</p> <p>Topic 3: 74B, 74-77, 77B</p> <p>Topic 4: 92B, 92-94</p> <p>Topic 18: 414B, 414-415, 415B</p> <p>Topic 19: 438B, 438-439, 439B</p>

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Correlated to:
Montgomery County Public Schools Curriculum Framework
(Grade 4)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
GRADE 4	
Knowledge of Algebra, Patterns, and Functions	
Content Standard 1.0: Students will algebraically represent, model, analyze, and solve mathematical and real-world problems involving patterns and functional relationships.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.4.1	
.1 generalize a pattern by stating a rule.	Topic 15: 356B, 356–357, 357B, 361A
1.4.1.2 complete a function (one-step) table using a given rule.	Topic 15: 357A (Quick Check Master)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.4.2	
.1 write numeric expressions in equivalent forms using the commutative and associative properties.	Topic 2: 28–29 Topic 3: 60B, 60–61, 61B Topic 4: 79
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content.	
1.4.3	
.1 use variables in open sentences.	Topic 2: 34B, 34–35, 35B, 44B, 44–46, 47C Topic 4: 79 Topic 14: 336B, 336–338, 339B Topic 17: 410B, 410–411, 411B Topic 18: 434B, 434–435, 435B
.2 solve for the unknown in an equation with one operation using whole numbers.	Topic 2: 34B, 34–35, 35B, 44B, 44–46, 47C Topic 4: 79 Topic 14: 336B, 336–338, 339B Topic 17: 410B, 410–411, 411B Topic 18: 434B, 434–435, 435B, 445A (Extensions)
Knowledge of Geometry	
Content Standard 2.0: Students will apply the properties of one-, two-, and three-dimensional geometric figures to describe, reason, and solve problems about shape, size, position, and motion of objects.	

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By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.4.1.	
.1 use manipulatives, pictorial representations, and appropriate vocabulary (sides, angles, edges, vertices, and faces) to identify and describe the attributes of solid figures.	Topic 9: 213A (Extensions) Topic 15: 346B, 346–349, 349B, 350A, 350–351, 351A, 352A, 352–353, 353A, 361A (Extensions)
.2 identify parallelism and perpendicularity of geometric figures and real-world objects.	Topic 9: 196B, 196–197, 197B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.4.2	
.1 identify, classify, and sketch acute, right, and obtuse angles and relate them to real-world examples.	Topic 9: 198B, 198–199, 199B, 213A (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.4.3	
.1 identify, draw, label, and describe points, lines, line segments, and rays.	Topic 9: 196B, 196–197, 197B, 198B, 198–199, 199B
.2 draw circles, triangles, and quadrilaterals, given their dimensions.	Topic 9: 202B, 203B, 204B, 205B, 206B, 207B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.4.4	
.1 identify and describe transformations: translations (slides), reflections (flips), and rotations (turns).	Topic 19: 448B, 448–449, 450B, 450–451, 451B, 452–453, 453B
Knowledge of Measurement	
Content Standard 3.0: Students will identify attributes, units, and systems of measurements and apply a variety of techniques, formulas, tools, and technology for determining measurements.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.4.1	
.1 identify the appropriate measurable attribute to solve a problem.	Topic 14: 343B (Extensions) Topic 16: 364B, 364, 365B, 368B, 368–369, 369B, 374B, 374–375, 375B, 376B, 376–377, 377B, 378B, 378–379, 379B, 399F (Extensions)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.4.2	
.1 use standard units (yards, meters, and other units) to measure objects.	Topic 16: 364B, 365, 368B, 368–369, 369B, 374B, 374–375, 375B, 378B, 378–379, 379B, 399E (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.4.3	
.1 develop and use formulas to solve problems involving perimeters and areas of rectangles, including squares.	Topic 14: 318B, 318–319, 319B, 320B, 320–322, 323B, 328B, 328–330, 330B, 332B, 332–333, 333B, 334B, 334–335, 335B
.2 estimate and determine elapsed time.	Topic 16: 386B, 386–389, 389B, 399F (Extensions)
.3 identify equivalent periods of time, including relationships between and among seconds, minutes, hours, days, months, and years.	Topic 16: 384B, 384–385, 385B
.4 estimate and determine the volume of a rectangular prism using manipulatives.	Topic 15: 354A, 354–355, 355A
.5 determine and use equivalent units within the same system.	Topic 16: 364B, 365A, 365–366, 366B, 368B, 368–369, 369B, 370B, 370–372, 373B, 374B, 374–375, 375B, 376B, 376–377, 377B, 380B, 380–381, 381B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.4.4	
.1 use perimeter, area, volume, and elapsed time to solve problems.	<p>Topic 14: 316B, 316–317, 317B, 320B, 320–322, 323B, 324B, 324–325, 325B, 326B, 326–327, 327B, 328B, 328–330, 330B, 332B, 332–333, 333B, 334B, 334–335, 335B, 336A, 336–339, 339B, 343B (Extensions)</p> <p>Topic 15: 354A, 354–355, 355A</p> <p>Topic 16: 386B, 386–389, 389B, 399G, (Extensions)</p>

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
Knowledge of Statistics	
Content Standard 4.0: Students will collect, organize, display, analyze, and interpret data to make decisions and predictions.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.4.2	
.1 organize and display data in a variety of ways, including line plots and line graphs.	Topic 17: 404B, 404–405, 405B, 406B, 406–407, 407B, 410B, 410–411, 411B, 420B, 420–421, 421B, 429B (Extensions), 429C (Extensions)
.2 discuss the appropriateness and inappropriateness of various data displays as they relate to the type of data and the purpose of the display.	Topic 17: 429C (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.4.3	
.1 analyze and interpret line plots, line graphs, and circle graphs.	Topic 17: 406B, 406–407, 407B, 410B, 410–411, 411B, 418B, 418–419, 419B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.4.4	
.1 determine and distinguish among mean, median, mode, and range using concrete materials.	Topic 17: 402, 402–403, 403B, 412B, 412–413, 413B, 414B, 414–415, 415B, 416B, 416–417, 429B (Extensions), 429C (Extensions)
Knowledge of Probability	
Content Standard 5.0: Students will use experimental methods and theoretical reasoning to determine probabilities, to make predictions, and to solve problems about events whose outcomes involve random variation.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
5.4.1	
.1 manipulate concrete objects to determine possible combinations of the objects.	Topic 20: 468B, 468–469, 469B
.2 identify and represent all possible outcomes for a simple probability situation in an organized way (e.g., tables, grids, tree diagrams).	Topic 20: 470B, 470–471, 471B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
5.4.2	
.1 find the probability of an event with equally likely outcomes and express the probability as a fraction from 0 (impossible) up to and including 1 (certain).	Topic 20: 472B, 472–474, 475B, 481F (Extensions)

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Knowledge of Number Relationships and Computation	
Content Standard 6.0: Students will describe, represent, and apply numbers and their relationships, and they will estimate and compute using mental strategies, paper/pencil, and technology.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.4.1	
.1 read and write numbers less than one million and more than one hundred using standard and expanded notation.	Topic 1: 4B, 4-7, 7B
.2 use place value through millions.	Topic 1: 14B, 14-15, 15B Topic 2: 32B, 32-33, 33B, 36B, 36-38, 39B, 40B, 40-41, 41B, 42B, 42-43, 43B Topic 5: 96B, 96-97, 97B, 100B, 100-101, 101B, 110B, 110-112, 113B, 114B, 114-115, 115B Topic 6: 150B, 150-151, 151B, 152B, 152-153, 153B Topic 8: 170B, 170-172, 173B, 174B, 174-176, 177B, 180B, 180-181, 181B Topic 12: 268B, 268-269, 269B, 270B, 270-272, 273B, 274B, 274-275, 275B, 274B, 274-275, 275B, 280B, 280-281, 281B, 282B, 282-283, 283B
.3 recognize and name equivalent fractions.	Topic 10: 224B, 224-227, 227B
.4 use positive and negative numbers in concrete situations.	Topic 1: 25A (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.4.2	
.1 model and identify the place value of each digit in whole numbers that are less than one million and greater than one hundred.	Topic 1: 4B, 4-7, 7B
.2 compare and order fractions, including improper fractions, and mixed numbers with like denominators.	Topic 10: 234B, 234-235, 235B, 236B, 236-237, 237B
.3 identify and compare decimals to the hundredths using numerals, pictures, and concrete objects.	Topic 12: 268B, 268-269, 270B, 270-272, 273B

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.4.3	
.1 find multiples of numbers.	Topic 8: 182B, 182–183, 183B
.2 find factors of numbers.	Topic 5: 96B, 96–97, 97B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.4.4	
.1 demonstrate mastery of multiplication and division fact families.	Topic 4: 80B, 80–81, 81B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.4.5	
.1 multiply any whole number by a two- or three-digit factor.	Topic 5: 96B, 96–97, 97B, 102B, 102–104, 105B, 116B, 116–118, 119B Topic 7: 146B, 146–149, 149B, 150B, 150–151, 151B, 152B, 152–153, 153B, 156B, 156–157, 157B
.2 divide any whole number by a one-digit divisor and interpret remainders.	Topic 8: 164B, 164–165, 165B, 166B, 166–167, 167B, 168B, 168–169, 169B, 170B, 170–173, 173B, 174B, 174–176, 177B, 178B, 178–179, 179B
.3 estimate products to determine reasonableness of answers.	Topic 5: 100B, 100–101, 101B, 102B, 102–103, 103B
.4 add and subtract fractional numbers with like denominators, explaining the process and recording the results.	Topic 11: 250B, 250–251, 251B
.5 use models and pictures to multiply a fraction by a whole number and a whole number by a fraction.	Topic 3: 73A (Extensions)
.6 add and subtract decimals (tenths and hundredths), explaining the process and recording results.	Topic 13: 294B, 294–295, 295B, 296B, 296–298, 299B, 300B, 300–302, 303B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.4.6	
.1 simplify numerical expressions involving parentheses.	Topic 6: 62B, 62–63
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.4.7	
.1 use a variety of strategies to solve estimation problems with fractions and decimals.	Topic 10: 222B, 222–223 Topic 13: 294B, 294–295, 295B
.2 identify and describe the relationship between fractions and decimals	Topic 12: 274B, 274–275, 275B, 276B, 276–278, 279B, 280B, 280–281, 281B

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Correlated to:
Montgomery County Public Schools Curriculum Framework
(Grade 5)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
GRADE 5	
Knowledge of Algebra, Patterns, and Functions	
Content Standard 1.0: Students will algebraically represent, model, analyze, and solve mathematical and real-world problems involving patterns and functional relationships.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.5.1	
.1 recognize, describe, and extend numerical and geometric patterns and functional relationships.	Topic 1: 14B, 14–15, 15B Topic 2: 33 Topic 3: 77 Topic 6: 148B, 148–151, 151B, 152B, 152–154, 155B, 167A (Extensions) Topic 8: 203 Topic 15: 382B, 382–383, 383B Topic 16 404B, 404–405, 405B
.2 analyze patterns and generalize rules illustrated in patterns.	Topic 1: 14B, 14–15, 15B Topic 2: 33 Topic 3: 77 Topic 5: 122B, 122–123, 123B Topic 6: 148B, 148–151, 151B, 152B, 152–154, 155B, 167A (Extensions) Topic 8: 203 Topic 15: 382B, 382–383, 383B Topic 16 404B, 404–405, 405B
.3 write the rule for a given function (one-step) table.	Topic 6: 148B, 148–151, 151B Topic 15: 382B, 382–383, 383B, 393B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.5.2	
.1 write numeric expressions in equivalent forms.	Topic 6: 146B, 146–147, 147B, 148B

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
.2 use grouping symbols to apply the associative property and evaluate expressions.	Topic 3: 58B, 58–59, 59B, 67 Topic 6: 167B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content.	
1.5.3	
.1 write and evaluate simple algebraic expressions in one variable using substitution.	Topic 10: 259
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content.	
1.5.4	
.1 represent relationships using graphs and tables.	Topic 17: 420B, 420–421, 421B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content.	
1.5.5	
.1 identify and graph points using ordered pairs in the first quadrant of the coordinate plane.	Topic 17: 414B, 414–416, 417B, 418B, 418–419, 419B, 420B, 420–421, 421B
Knowledge of Geometry	
Content Standard 2.0: Students will apply the properties of one-, two-, and three-dimensional geometric figures to describe, reason, and solve problems about shape, size, position, and motion of objects.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.5.1	
.1 identify, describe, compare, and classify two- and three-dimensional figures by relevant properties including the number and size of angles, the number of vertices, the number of edges, and the shapes of faces.	Topic 8: 206B, 206–207, 207B, 208B, 208–209, 209B, 210B, 210–211, 211B Topic 12: 310B, 310–311, 311B Topic 13: 345A (Extensions)
.2 identify and draw circles and identify relationships among the radius, diameter, and circumference.	Topic 12: 310B, 310–311, 311B, 319E (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.5.2	
.1 identify and label the vertex and rays of an angle.	Topic 8: 204B, 204–205, 205B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.5.3	
.1 draw geometric figures using tools and technology.	Topic 8: 206B, 206–207, 207B, 208B, 208–209, 209B, 212B, 217E (Extensions), 217F (Extensions) Topic 19: 467, 483A (Extensions), 483B (Extensions)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.5.4	
.1 identify transformations in a tessellation.	Topic 19: 477
Knowledge of Measurement	
Content Standard 3.0: Students will identify attributes, units, and systems of measurements and apply a variety of techniques, formulas, tools, and technology for determining measurements.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.5.1	
.1 identify the appropriate measurable attribute to solve a problem.	Topic 12: 303 Topic 14: 348, 350, 352, 353B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.5.2	
.1 use protractors to measure angles.	Topic 8: 204B, 204–205, 205B
.2 select and use appropriate tools and units to measure objects.	Topic 12: 303 Topic 13: 345A (Extensions) Topic 14: 348, 350, 352, 353B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.5.3	
.1 estimate and determine the perimeter of polygons.	Topic 12: 300B, 300–302, 303B Topic 17: 427A (Extensions)
.2 estimate and determine the area of rectangles and estimate the area within any closed figure.	Topic 12: 304B, 304–305, 314B, 314–315, 315B
.3 develop and use formulas to determine the volume of rectangular prisms.	Topic 13: 332B, 332–334, 334B
.4 differentiate between and use appropriate units of measure for two- and three-dimensional objects.	Topic 12: 300B, 300–303, 303B, 304B, 304–305, 305B, 306B, 306–307, 307B, 308B, 308–309 309B Topic 13: 332B, 332–334, 334B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.5.4	
.1 use an organized approach, appropriate strategies, and technology as needed to solve multi-step problems involving length, weight, time, capacity, temperature, perimeter, area, and volume.	Topic 10: 270B, 270–271, 271B Topic 12: 307A (Quick Check Master), 308B, 308–309, 309B, 314B, 314–315, 315B Topic 13: 332B, 332–334, 335B

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
continued	Topic 14: 349B, 357, 358B, 358–360, 361B, 362B, 362–363, 363B, 366B, 366–367, 367B, 373A (Extensions)
Knowledge of Statistics	
Content Standard 4.0: Students will collect, organize, display, analyze, and interpret data to make decisions and predictions.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.5.2	
.1 collect and organize data using a variety of graphic representations, including tables, stem and leaf plots, line plots, and line graphs.	Topic 9: 253A (Extensions) Topic 14: 366B, 366–367, 367B Topic 18: 430B, 430–431, 431B, 440B, 440–442, 443B, 436B, 436–439, 439B, 454B, 454–455, 455B, 461B (Extensions) Topic 20: 499F (Investigations)
.2 select and defend the selection of particular graphic displays.	Topic 18: 454B, 461B (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.5.3	
.1 analyze and interpret stem and leaf plots and double line graphs.	Topic 18: 440B, 440–442, 443B, 461A, (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.5.4	
.1 explain how mean, median, mode, and range of a data set are different.	Topic 18: 450B, 450–451, 452B, 452–453, 453B, 461B (Extensions)
.2 use the range, mean, median, and mode to describe a set of data.	Topic 18: 450B, 450–451, 452B, 452–453, 453B, 461B (Extensions)
.3 compute and compare range, mean, median, and mode of data sets.	Topic 18: 450B, 450–451, 452B, 452–453, 453B, 461B (Extensions)
Knowledge of Probability	
Content Standard 5.0: Students will use experimental methods and theoretical reasoning to determine probabilities, to make predictions, and to solve problems about events whose outcomes involve random variation.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
5.5.2	
.1 use a fraction or a ratio to describe the probability of an event.	Topic 20: 488B, 488–491, 491B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
5.5.3	
.1 conduct an experiment and make a prediction based on the outcomes of the experiment.	Topic 20: 492B, 492–493, 493

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
Knowledge of Number Relationships and Computation	
Content Standard 6.0: Students will describe, represent, and apply numbers and their relationships, and they will estimate and compute using mental strategies, paper/pencil, and technology.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.5.1	
.1 read, write, and represent interchangeably simple fractions, decimals, and percents using symbols, words, and models.	Topic 16: 398B, 398–399, 399B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.5.2	
.1 compare and order decimals to the thousandths place and describe them using place-value concepts.	Topic 1: 12B, 12–13, 13B
.2 compare and order fractions in equivalent forms, including improper fractions and mixed numbers with like and unlike denominators.	Topic 9: 230–231, 231B
.3 compare order, and describe integers on a number line.	Topic 1: 6–8
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.5.3	
.1 identify prime and composite numbers less than 100.	Topic 4: 106B, 106–108, 109B
.2 find the prime factorization of a composite number.	Topic 4: 106B, 106–108, 109B
.3 find the greatest common factor and least common multiple of numbers.	Topic 9: 232B, 232–233, 233B Topic 10: 260B, 260–261, 261B
.4 use number theory concepts of primes, factors, multiples, and rules of divisibility to show number relationships.	Topic 4: 106B, 106–109, 109B Topic 9: 232B, 232–233, 233B Topic 10: 260B, 260–261, 261B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.5.5	
.1 compute with whole numbers.	Topic 3: 60B, 60–61, 61B, 62B, 62–63, 63B, 64B, 64–66, 67B, 68B, 68–69, 69B, 70B, 70–71, 71B, 77 Topic 4: 119E (Extensions) Topic 5: 128B, 128–129, 129B, 130B, 130–132, 134B, 134–135, 135B, 136B, 136–137, 137B, 138B, 138–139, 139B, 143A(Extensions)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
.2 use models and pictures to illustrate multiplying a whole number by a decimal number.	Topic 7: 170, 171–172, 172B, 174B, 174–175, 175B
.3 add and subtract fractions, mixed numbers and decimals.	Topic 10: 256B, 256–258, 259B, 262B, 262–263, 263B, 264B, 264–265, 265B, 266B, 266–267, 267B, 268B, 268–269, 269B, 275A (Extensions)
.4 multiply and divide decimals by whole numbers.	Topic 7: 170B, 170–171, 171B, 172B, 172–173, 173B, 174B, 174–175, 175B, 178B, 178–179, 179B, 180B, 180–182, 183B, 184B, 184–185, 185B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.5.6	
.1 use mathematical properties to solve problems.	Topic 3: 58B, 58–59, 59B
.2 explain and apply number relationships using the mathematical properties of operations, including associative (addition and multiplication) and multiplicative inverse.	Topic 3: 58B, 58–59, 59B Topic 9: 223
.3 recognize and use identity and zero properties.	Topic 3: 58B, 58–59, 59B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.5.7	
.1 apply a variety of strategies to solve problems with fractions, decimals, and percents.	Topic 10: 258, 262B, 263, 265, 267, 267B, 269, 269B Topic 11: 279, 279B, 282, 284B, 285, 286B, 287, 287B, 288B, 288–289, 289B Topic 16: 400B, 400–401, 401B, 402B, 402–403, 403B, 404B, 404–405, 405B
.2 use estimation to solve problems with fractions and decimals.	Topic 7: 174B, 174–175, 175B, 184B, 184–185, 185B Topic 10: 275A (Extensions)
.3 compute percentages of 10, 20, 25, 50, and 100 percent of a number.	Topic 16: 398B, 398–399, 399B

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Correlated to:
Montgomery County Public Schools Curriculum Framework
(Grade 6)

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
GRADE 6	
Knowledge of Algebra, Patterns, and Functions	
Content Standard 1.0: Students will algebraically represent, model, analyze, and solve mathematical and real-world problems involving patterns and functional relationships.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.6.1	
.1 use and create tables to extend a pattern and produce a rule.	Topic 2: 48B, 48–49, 49B Topic 9: 214B, 214–215, 215B Topic 11: 290B, 290–291, 291B Topic 15: 376, 376–377, 377B, 378B, 378–379, 379B, 390B, 390–391, 391B, 397C (Extensions) Topic 20: 527
.2 identify and extend simple arithmetic or geometric sequences.	Topic 9: 214B, 214–215, 215B Topic 11: 290B, 290–291, 291B Topic 15: 376, 376–377, 377B, 378B, 378–379, 379B, 390B, 390–391, 391B Topic 20: 527
.3 identify and use patterning as a strategy to solve problems.	Topic 9: 214B, 214–215, 215B Topic 11: 290B, 290–291, 291B Topic 15: 376, 376–377, 377B, 378B, 378–379, 379B, 390B, 390–391, 391B Topic 20: 527
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
1.6.3	
.1 solve one-step linear equations using whole numbers, decimals, and fractions.	Topic 3: 73 Topic 4: 98B, 98–100, 101B, 102B, 102–105, 105B, 106B, 106–108, 109B, 110B, 110–112, 113B Topic 7: 169

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
.2 evaluate simple algebraic expressions and simple formulas, including area, perimeter, and distance.	<p>Topic 2: 45, 46B, 46–47, 47B, 48B, 48–49, 49B, 59A (Extensions)</p> <p>Topic 17: 426B, 426–429, 429B, 430B, 430–432, 433B, 434B, 434–437, 437B, 442B, 442–443, 443B, 447</p>
.3 describe real-world situations represented by simple algebraic expressions or equations.	<p>Topic 2: 32B, 33–33, 33B, 46B, 46–47, 47B, 48B, 48–49, 49B</p> <p>Topic 4: 98B, 98–100, 101B, 102B, 102–105, 105B, 106B, 106–108, 109B, 110B, 110–112, 113B</p> <p>Topic 15: 397D (Extensions)</p>
.4 recognize and use the equality properties to solve for an unknown value in an equation.	<p>Topic 3: 73</p> <p>Topic 4: 98B, 98–100, 101B, 102B, 102–105, 105B, 106B, 106–108, 109B, 110B, 110–112, 113B</p> <p>Topic 7: 169</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content.	
1.6.4	
.1 match a graphic representation of a situation to a written description.	Topic 15: 380B, 380–381, 381B, 382B, 382–385, 385B, 397D (Extensions)
.2 represent and interpret a quantitative relationship in a table or graph.	<p>Topic 15: 376B, 376–377, 377B, 378B, 378–379, 379B, 380B, 380–381, 381B, 382B, 382–385, 385B</p> <p>Topic 19: 517B (Extensions)</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content.	
1.6.5	
.1 graph ordered pairs in the four quadrants of a coordinate plane.	Topic 10: 246B, 246–247, 247B, 259A (Extensions)
.2 generate and graph a set of ordered pairs using a given rule.	<p>Topic 10: 248</p> <p>Topic 15: 380B, 380–381, 381B, 382B, 382–385, 385B</p>
Knowledge of Geometry	
Content Standard 2.0: Students will apply the properties of one-, two-, and three-dimensional geometric figures to describe, reason, and solve problems about shape, size, position, and motion of objects.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.6.1	
.1 use a variety of triangles and quadrilaterals to draw conclusions about the sum of the measure of their interior angles.	Topic 11: 274B, 274–276, 277B, 278–280, 281B

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
.2 identify and predict the effect of combining and dividing geometric shapes into other shapes.	Topic 11: 277, 293B (Performance Assessment), 297A (Extensions)
.3 identify or describe diagonal lines or line segments.	Topic 11: 262B, 262–264, 264B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.6.2	
.1 determine missing angle measures using estimation and direct and indirect measurements.	Topic 11: 271, 274B, 274–276, 277B
.2 measure angles in triangles.	Topic 11: 274B, 274–276, 277B
.3 define and identify angles as adjacent, complementary or supplementary.	Topic 11: 270B, 270–273, 273B
.4 classify triangles and quadrilaterals by sides and by angles.	Topic 11: 274B, 274–276, 277B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.6.3	
.1 draw and analyze geometric figures on a coordinate plane.	Topic 10: 247–249, 249B Topic 11: 297A (Extensions)
.2 draw circles, angles, triangles, and quadrilaterals based on given measurements using a variety of tools and methods.	Topic 11: 266B, 266–269, 269B, 273, 278, 283A (Quick Check Master)
.3 make a model of a three-dimensional figure from a two-dimensional drawing.	Topic 18: 455–456
.4 make a two-dimensional drawing of a three-dimensional figure.	Topic 17: 445
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.6.4	
.1 locate, give coordinates of, and graph plane figures that are the results of reflections and translations in all quadrants of the coordinate plane.	Topic 11: 297A (Extensions)
.2 locate, give the coordinates of, and graph plane figures that are the results of rotations (multiples of 90 degrees).	Topic 11: 297A (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
2.6.5	
.1 identify congruent and similar figures.	Topic 11: 284B, 285 Topic 17: 429

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
Knowledge of Measurement	
Content Standard 3.0: Students will identify attributes, units, and systems of measurements and apply a variety of techniques, formulas, tools, and technology for determining measurements.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.6.2	
.1 select tools and units to measure accurately in given situations.	Topic 16: 400B, 405
.2 compare, convert, and estimate units of measure of length, time, weight, mass, capacity and volume within the same measurement system.	Topic 10: 259A (Extensions) Topic 16: 400B, 400–402, 403B, 404B, 404–406, 407B, 414B, 414–415, 415B, 418B, 418–419, 419B, 423E (Extensions)
.3 compare relative sizes of both customary and metric units	Topic 16: 400B, 400–402, 403B, 404B, 404–406, 407B, 412B, 412–413, 413B, 419
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
3.6.3	
.1 develop and use formulas, using related formulas and models, to determine areas of polygons such as triangles, parallelograms, trapezoids, and circles.	Topic 17: 430B, 430–433, 433B, 434B, 434–437, 437B
.2 determine the relationship between the diameter and the circumference of a circle.	Topic 17: 438B, 438–441, 441B
.3 estimate and compute the circumference and area of a circle using formulas and other methods	Topic 17: 442B, 442–443, 443B
Knowledge of Statistics	
Content Standard 4.0: Students will collect, organize, display, analyze, and interpret data to make decisions and predictions.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.6.1	
.1 identify and compare different ways of selecting a sample.	Topic 19: 502B, 502–505, 505B
.2 conduct and use the results of a simple statistical investigation to answer a question.	Topic 19: 506B, 506–508, 509B, 517C (Investigations)
.3 construct convincing arguments to support conclusions based on analysis of data and interpretation of graphs.	Topic 19: 477, 487

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.6.2	
.1 interpret, organize, and display data, with and without technology, using various formats, including frequency tables and circle graphs.	<p>Topic 11: 271, 274B, 274–276, 277B</p> <p>Topic 19: 480B, 480–483, 483B, 484B, 484–487, 487B, 488B, 488–489, 489B, 494B, 494–497, 497B, 498B, 498–499, 499B, 517B (Extensions), 517C (Extensions)</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.6.3	
.1 analyze and interpret data using various formats, including frequency tables.	<p>Topic 11: 271, 274B, 274–276, 277B</p> <p>Topic 19: 480B, 480–483, 483B, 484B, 484–487, 487B, 488B, 488–489, 489B, 494B, 494–497, 497B, 498B, 498–499, 499B, 517B (Extensions), 517C (Extensions)</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.6.4	
.1 select and justify mean, median, or mode of a data set as the best representation of a typical value of a data set.	<p>Topic 19: 490B, 490–493, 493B, 500B, 500–501, 501B</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
4.6.5	
.1 recognize and identify the misuses of statistical and numerical data.	<p>Topic 19: 500B, 500–501, 501B</p>
.2 analyze why the way in which data are displayed might influence the conclusion reached.	<p>Topic 19: 500B, 500–501, 501B, 509</p>
.3 analyze the effect a change of scale will have on graphs.	<p>Topic 19: 509</p>
Knowledge of Probability	
Content Standard 5.0: Students will use experimental methods and theoretical reasoning to determine probabilities, to make predictions, and to solve problems about events whose outcomes involve random variation.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
5.6.1	
.1 find all possible outcomes of experiments using such methods as lists, tree diagrams, area models, and organized lists.	<p>Topic 20: 520B, 520–522, 523B 524B, 524–526, 527B, 543E (Extensions)</p>
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
5.6.2	
.1 find the probability of events.	<p>Topic 20: 528B, 528–529, 529B, 534B, 534–535, 535B, 543E (Extensions)</p>

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
.2 use data to estimate the probability of future events.	Topic 20: 530B, 530–533, 533B
.3 represent probabilities as ratios, decimals between 0 and 1, and percentages between 0 and 100.	Topic 20: 528B, 528–529, 529B, 534B, 534–535, 535B, 543E (Extensions)
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
5.6.3	
.1 predict the probability of an event based on the outcomes of an actual event or experiment and compare the results to the theoretical probability of the event.	Topic 20: 530B, 530–533, 533B, 543E (Extensions)
Knowledge of Number Relationships and Computation	
Content Standard 6.0: Students will describe, represent, and apply numbers and their relationships, and they will estimate and compute using mental strategies, paper/pencil, and technology.	
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.6.1	
.1 read, write, and represent numbers using exponents	Topic 2: 39
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.6.2	
.1 compare, order, and describe rational numbers in equivalent forms.	Topic 1: 8B, 8–9, 9B 22B, 22–23, 23B Topic 10: 224–225, 225B, 226B, 226–227
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.6.5	
.1 add, subtract, multiply, and divide with decimals and fractions, including mixed numbers, expressing answers in simplest form.	Topic 3: 64B, 64–65, 65B, 70B, 70–72, 73B, 74B, 74–75, 75B, 76B, 76–77, 77B, 78B, 78–79, 79B, 84B, 84–85, 85B Topic 7: 162B, 162–163, 163B, 166B, 166–168, 169B, 170B, 170–171, 171B, 172B, 172–173, 173B, 174B, 174–176, 177B Topic 8: 186B, 186–187, 187B, 190B, 190–191, 191B, 192B, 192–193, 193B Topic 9: 202B, 202–203, 203B, 204B, 204–205, 205B, 206B, 206–207, 207B, 210B, 210–211, 211B

Montgomery County Public Schools Curriculum Framework	Scott Foresman – Addison Wesley enVisionMATH
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.6.6	
.1 use the order of operations to simplify numerical expressions.	Topic 2: 36B, 36–39, 39B
.2 use the distributive property to compute products.	Topic 2: 40B, 40–41, 41B
By the end of the following grades, students will know and be able to do everything in the previous grade and master the following content:	
6.6.7	
.1 use estimation and mental math to solve problems with fractions, decimals, and percents, explaining the reasoning involved.	Topic 3: 62B, 62–63, 63B, 66B, 66–67, 68B Topic 6: 66B, 66–67, 67B Topic 7: 170B, 170–171, 171B Topic 8: 188B, 188–189, 189B Topic 9: 208B, 208–209, 209B Topic 14: 352B, 352–353, 353B
.2 determine equivalent ratios, decimals, and percents.	Topic 14: 348B, 348–349, 349B
.3 determine ratios, rates, and unit rates in the context of a problem.	Topic 12: 300B, 300–301, 301B, 302B, 302–304, 305B, 306B, 306–307, 307B, 308B, 308–309, 309B, 310B, 310–313, 313B