

A Correlation of

**SCOTT FORESMAN ■ ADDISON WESLEY**  
**Mathematics**

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to the

**West Virginia**  
**Mathematics Specific Criteria**  
**for Content and Skills**  
**Grades K-6**



T/M-145C

## Introduction

This document demonstrates how **Scott Foresman – Addison Wesley Mathematics** meets the objectives of the West Virginia Mathematics Specific Criteria for Content and Skills. Correlation page references are to the Teacher’s Edition and associated Student Edition.

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

### ● Reaching All Learners

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

### ● Test Prep

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

### ● Priority on problem solving:

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

### ● Instructional Support

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

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

## Table of Contents

Kindergarten.....	1
Grade One.....	8
Grade Two.....	17
Grade Three.....	24
Grade Four.....	31
Grade Five.....	38
Grade Six .....	44

**VENDOR:** Pearson Scott Foresman

**SUBJECT:** Mathematics – Kindergarten

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**INSTRUCTIONAL**

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**TE ISBN:** 0-328-10228-8 West Virginia Teacher’s Edition Package (4 volumes)

**West Virginia Mathematics  
Specific Criteria for Content and Skills  
Kindergarten**

**All materials at this grade level (1) be research based and theory driven; (2) incorporate basic, accurate information that is developmentally appropriate; (3) use interactive activities that actively engage students; (4) provide students with opportunities to model and practice relevant skills; (5) develop higher order thinking opportunities; and (6) be based on national standards. The instructional materials should provide students with opportunities to:**

<b>West Virginia Specific Criteria</b>	<b>Scott Foresman - Addison Wesley Mathematics</b>
<b>A. NUMBER AND OPERATIONS</b>	
<b>1. count</b> <b>a. forward to 20 w/ &amp; w/o objects</b>	53A–53B, 53–54, 55A–55B, 55–56, 57A–57B, 57–58, 59A–59B, 59–60, 61A–61B, 61–62, 63A–63B, 63–64, 65A–65B, 65–66, 67A–67B, 67–68, 71A–71B, 71–72, 77A–77B, 77–78, 79A–79B, 79–80, 81A–81B, 81–82, 83A–83B, 83–84, 85A–85B, 85–86, 87A–87B, 87–88, 89A–89B, 89–90, 91A–91B, 91–92, 97A–97B, 97–98, 103A–103B, 103–104, 105A–105B, 105–106, 107A–107B, 107–108, 109A–109B, 109–110, 111A–111B, 111–112, 113A–113B, 113–114, 121A–121B, 121–122, 127A–127B, 127–128, 179A–179B, 179–180, 225A–225B, 225–226, 227A–227B, 227–228, 229A–229B, 229–230, 231A–231B, 231–232, 233A–233B, 233–234, 235A–235B, 235–236, 239A–239B, 239–240, 245A–245B, 245–246, 247A–247B, 247–248, 249A–249B, 249–250, 251A–251B, 251–252, 253A–253B, 253–254, 255A–255B, 255–256, 257A–257B, 257–258, 259A–259B, 259–260

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>b. backwards from 10 w/ &amp; w/o objects (MA.K.1.1)</b>	237A–237B, 237–238, 240, 265A–265B, 265–266, 267A–267B, 267–268, 269A–269B, 269–270, 271A–271B, 271–272, 273A–273B, 273–274, 275A–275B, 275–276, 277A–277B, 277–278, 281A–281B, 281–282
<b>2. read, write, order, and compare numbers to 20 (MA.K.1.2.)</b>	27A–27B, 27–28, 29A–29B, 29–30, 33A–33B, 33–34, 55A–55B, 55–56, 59A–59B, 59–60, 61A–61B, 61–62, 63A–63B, 63–64, 65A–65B, 65–66, 67A–67B, 67–68, 71A–71B, 71–72, 81A–81B, 81–82, 85A–85B, 85–86, 87A–87B, 87–88, 89A–89B, 89–90, 91A–91B, 91–92, 105A–105B, 105–106, 107A–107B, 107–108, 109A–109B, 109–110, 111A–111B, 111–112, 121A–121B, 121–122, 169A–169B, 169–170, 179A–179B, 179–180, 189A–189B, 189–190, 231A–231B, 231–232, 233A–233B, 233–234, 239A–239B, 239–240, 245A–245B, 245–246, 251A–251B, 251–252, 257A–257B, 257–258, 269A–269B, 269–270, 273A–273B–273–274, 277A–277B, 277–278, 281A–281B, 281–282
<b>3. count and group concrete objects by ones, fives, tens (MA.K.1.3)</b>	27A–27B, 27–28, 53A–53B, 53–54, 55A–55B, 55–56, 57A–57B, 57–58, 59A–59B, 59–60, 61A–61B, 61–62, 65A–65B, 65–66, 67A–67B, 67–68, 71A–71B, 71–72, 83A–83B, 83–84, 85A–85B, 85–86, 87A–87B, 87–88, 89A–89B, 89–90, 97A–97B, 97, 113A–113B, 113–114, 291A–291B, 291–292, 295A–295B, 295–296, 297A–297B, 297–298, 299A–299B, 299–300
<b>4. model and identify place value of each digit using standard and expanded form through 20 (MA.K.1.4)</b>	103A–103B, 103–104, 105A, 107A, 109A, 111A, 291A–291B, 291–292
<b>5. identify ordinal positions 1<sup>st</sup>-10<sup>th</sup> (MA.K.1.5)</b>	51L, 69A–69B, 69–70, 75L, 93A–93B, 93–94, 98

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<b>6. estimate the number of objects in a group of 20 or less and count to determine reasonableness (MA.K.1.6)</b>	101L, 119A–119B, 119–120, 128
<b>7. identify and name halves and wholes using concrete items (MA.K.1.7)</b>	215A–215B, 215–216
<b>8. write the corresponding number sentence and model</b> <b>a. addition of whole numbers using 10 or less items (MA.K.1.8)</b>	225A–225B, 225–226, 227A–227B, 227–228, 229A–229B, 229–230, 231A–231B, 231–232, 235A–235B, 235–236, 239A–239B, 239, 245A–245B, 245–246, 247A–247B, 247–248, 249A–249B, 249–250, 251A–251B, 251–252, 253A–253B, 253–254, 255A–255B, 255–256, 257A–257B, 257–258, 259A–259B, 259–260, 279A–279B, 279–280
<b>b. subtraction of whole numbers using 10 or less items (MA.K.1.8)</b>	237A–237B, 237–238, 240, 265A–265B, 265–266, 267A–267B, 267–268, 271A–271B, 271–272, 273A–273B, 273–274, 275A–275B, 275–276, 277A–277B, 277–278, 279A–279B, 279–280, 281A–281B, 281–282
<b>9. understand meanings of operations and the relationship between addition and subtraction (MA.K.1.9)</b> <b>a. identity element of addition</b>	225A, 233A–233B, 233–234
<b>b. commutative property</b>	225A–225B, 225–226, 227A–227B, 227–228, 229A–229B, 229–230, 231A–231B, 231–232, 233A–233B, 233–234, 251A–251B, 251–252, 253A–253B, 253–254, 255A–255B, 255–256, 259A–259B, 259–260, 271A–271B, 271–272, 273A–273B, 273–274, 275A–275B, 275–276, 277A–277B, 277–278, 279A–279B, 279–280, 281A–281B, 281–282

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<b>10. solve problems using a variety of strategies. (MA.K.1.10)</b>	67A–67B, 67–68, 71A–71B, 71–72, 97A–97B, 97–98, 127A–127B, 127–128, 219A–219B, 219–220, 249A–249B, 249–250, 259A–259B, 259–260, 279A–279B, 279–280, 281A–281B, 281–282, 297A–297B, 297, 299A–299B, 299–300
<b>B. ALGEBRA</b>	
<b>1. sort and classify objects by one attribute (MA.K.2.1)</b>	11A–11B, 11–12, 13A–13B, 13–14, 15A–15B, 15–16, 19A–19B, 19–20, 71A–71B, 71–72, 259A–259B, 259–260
<b>2. a. identify and describe a repeating pattern found in common objects, sound, and movement (MA.K.2.2)</b>	25L, 35A–35B, 35–36, 37A–37B, 37–38, 39A–39B, 39–40, 41A–41B, 41–42, 43A–43B, 43–44, 48, 25L
<b>b. extend a repeating pattern (MA.K.2.2)</b>	25L, 35A–35B, 35–36, 37A–37B, 37–38, 39A–39B, 39–40, 43A–43B, 43–44
<b>3. model and identify patterns of counting by 5’s and 10’s (MA.K.2.3)</b>	101L, 113A–113B, 114, 285L, 293A–293B, 293–294, 295A–295B, 295–296, 297A–297B, 297–298
<b>C. GEOMETRY</b>	
<b>1. use physical materials to construct, identify and classify basic geometric shapes. (MA.K.3.1)</b> <ul style="list-style-type: none"> <li>• circle</li> <li>• square</li> <li>• rectangle</li> <li>• triangle</li> </ul>	201A–201B, 201–202, 203A–203B, 203–204, 205A–205B, 205–206, 219A–219B, 219

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>2. identify basic geometric shapes in the environment. (MA.K.3.2)</b>	195K, 219A–219B, 219
<b>3. model and describe spatial relationships. (MA.K.3.3)</b> <ul style="list-style-type: none"> <li>• inside/outside</li> <li>• top/bottom</li> <li>• before/after</li> </ul>	3A–3B, 3–4, 7A–7B, 7–8, 21A–21B, 21–22
<b>4. identify the separate parts used to make a whole object. (MA.K.3.4)</b>	209A–209B, 209–210, 213A–213B, 213–214, 215A–215B, 215–216
<b>D. MEASUREMENT</b>	
<b>1. estimate the size of an object, and compare, and order objects with respect to a given attribute (MA.K.4.1)</b>	133A–133B, 133–134, 135A–135B, 135–136, 137A–137B, 137–138, 141A–141B, 141–142, 145A–145B, 145–146, 149A–149B, 149–150, 155A–155B, 155–156
<b>2. a. use standard units of measure to find the length of an object (MA.K.4.2)</b>	140, 142
<b>b. use nonstandard units of measure to find the length of an object (MA.K.4.2)</b>	131L, 139A–139B, 139–140, 141A–141B, 141–142



West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<p><b>3. compare two objects in nonstandard units of measure, according to one or more of the following attributes. (MA.K.4.3)</b></p> <ul style="list-style-type: none"> <li>• length</li> <li>• height</li> <li>• weight</li> </ul>	131I, 131K, 135A–135B, 135–136, 151A–151B, 151–152
<p><b>4. a. name the days of the week (MA.K.4.4)</b></p>	159I, 161A–161B, 161–162, 163A–163B, 163–164
<p><b>b. name the seasons of the year (MA.K.4.4)</b></p>	165A–165B, 165–166
<p><b>5. read time to the hour using analog and digital clocks (MA.K.4.5)</b></p>	159J, 173A–173B, 173–174, 175A–175B, 175–176, 191A–191B, 191
<p><b>6. identify the name and value of a penny, nickel, and dime. (MA.K.4.6)</b></p>	179A–179B, 179–180, 181A–181B, 181–182, 183A–183B, 183–184, 189A–189B, 189, 243J
<p><b>7. determine the value of a collection of pennies with a total value less than twenty cents. (MA.K.4.7)</b></p>	179A–179B, 179–180, 181A–181B, 181–182, 183A–183B, 183–184, 189A–189B, 189, 257A–257B, 257–258
<b>E. DATA ANALYSIS AND PROBABILITY</b>	
<p><b>1. collect, sort, and organize data as a group project (MA.K.5.1)</b></p>	29A–29B, 29–30, 31A–31B, 31–32, 33A–33B, 33–34, 53A–53B, 53–54, 67A–67B, 67–68, 233A–233B, 233–234
<p><b>2. construct graphs using objects and pictures (MA.K.5.2)</b></p>	25K, 29A–29B, 29–30, 31A–31B, 31–32, 67A–67B, 67–68

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<b>3. analyze data represented on a graph using grade level appropriate questions (MA.K.5.3)</b>	29A–29B, 29–30, 31A–31B, 31–32, 33A–33B, 33–34, 47A–47B, 47–48, 67A–67B, 67–68

**VENDOR:** Pearson Scott Foresman  
**SUBJECT:** Mathematics – Grade One  
**SE ISBN:** 0-328-11705-6 Pupil Edition

**INSTRUCTIONAL MATERIALS:** Student Edition & Teacher’s Editions  
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## West Virginia Mathematics Specific Criteria for Content and Skills Grade One

All materials at this grade level (1) be research based and theory driven; (2) incorporate basic, accurate information that is developmentally appropriate; (3) use interactive activities that actively engage students; (4) provide students with opportunities to model and practice relevant skills; (5) develop higher order thinking opportunities; and (6) be based on national standards. The instructional materials should provide students with opportunities to:

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>A. NUMBER AND OPERATIONS</b>	
<b>1. count forward to 100 and backward from 20 with and without objects (MA.1.1.1)</b>	91A–91B, 91–92, 95A–95B, 95–96, 97A–97B, 97–98, 124, 125A–125B, 125–126, 127A–127B, 127–128, 245A–245B, 245–246
<b>2. read, write, order, and compare numbers to 100 (MA.1.1.2)</b>	21A–21B, 21–22, 25A–25B, 25–26, 95A–95B, 95–96, 241A–241B, 241–242, 243A–243B, 243–244, 245A–245B, 245–246, 247A–247B, 247–248, 263A–263B, 263–264, 281A–281B, 281–282, 283A–283B, 283–284, 285A–285B, 285–286, 297A–297B, 297–298, 301A–301B, 301–302, 339A–339B, 339–240,
<b>3. model and identify odd and even numbers to 20 with and without objects (MA.1.1.3)</b>	265A–265B, 265–266, 269, 354
<b>4. count and group concrete items by ones and tens to 100 (MA.1.1.4)</b>	243A–243B, 243–244, 247A–247B, 247–248, 280, 281A–281B, 281–282, 283A–283B, 283–284, 285A–285B, 285–286, 287A–287B, 287–288, 291A–291B, 291–292, 295A–295B, 295–296, 279K–279L

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
5. <b>model and identify place value of each digit utilizing standard and expanded form to 100 (MA.1.1.5)</b>	241A–241B, 241–242, 247A–247B, 247–248, 276, 283A–283B, 283–284, 285A–285B, 285–286, 287A–287B, 287–288, 291A–291B, 291–292
6. <b>round any two digit number to nearer 10 (MA.1.1.6)</b>	299A–299B, 299–300
7. <b>identify and read ordinal numbers 1<sup>st</sup> through 20<sup>th</sup> (MA.1.1.7)</b>	239K–239L, 240, 267A–267B, 267–268, 269
8. <b>estimate the number of objects in a group of 100 or less and count to determine reasonableness of estimate (MA.1.1.8)</b>	239, 249A–249B, 249–250
9. a. <b>identify and name halves, thirds, and fourths as part of a whole, using models (MA.1.1.9)</b>	155K, 156, 183A–183B, 183–184, 185A–185B, 185–186, 199
b. <b>identify and name halves, thirds and fourths as part of a group, using models (MA.1.1.9)</b>	155K–155L, 187A–187B, 187–188, 189A–189B, 189–190, 200
10. a. <b>model addition of whole numbers using 18 or less items and write the corresponding number sentence (MA.1.1.10)</b>	3A–3B, 3–4, 5A–5B, 5–6, 7A–7B, 7–8, 9A–9B, 9–10, 17A–17B, 17–18, 47A–47B, 47–48, 49A–49B, 49–50, 51A–51B, 51–52, 53A–53B, 53–54, 79A–79B, 79–80, 83, 85, 91A–91B, 91–92, 93A–93B, 93, 95A–95B, 95–96, 97A–97B, 97–98, 103A–103B, 103–104, 105A–105B, 105, 107A–107B, 107–108, 109–110, 111A–111B, 111–112, 113A–113B, 113–114, 129A–129B, 129–130, 139A–139B, 139–140, 152, 417A–417B, 417–418, 421A–421B, 421–422, 453

<b>West Virginia Specific Criteria</b>	<b>Scott Foresman - Addison Wesley Mathematics</b>
<b>b. model subtraction of whole numbers using 18 or less items and write the corresponding number sentence</b>	19A–19B, 19–20, 63A–63B, 63–64, 69A–69B, 69–70, 77A–77B, 77–78, 79A–79B, 80, 83, 85, 123K–123L, 125A–125B, 125, 127A–127B, 127, 129A–129B, 129–130, 139A–139B, 139–140, 151, 152
<b>11. understand the relationship between addition and subtraction (MA.1.1.11)</b> <b>a. identify element of addition</b>	51A–51B, 51–52
<b>b. commutative property</b>	93A–93B, 93–94
<b>c) fact families</b>	83, 129A–129B, 129–130, 139A–139B, 139–140, 141A–141B, 141–142, 437A–437B, 437–438, 452
<b>d) inverse operations</b>	83, 129A–129B, 129–130, 137A–137B, 137–138, 141A–141B, 141–142, 439A–439B, 439–440, 447
<b>12. a. memorize basic addition facts with sums to 10 (MA.1.1.12)</b>	103A–103B, 103–104, 105A–105B, 105–106, 107A–107B, 107–108, 139A–139B, 139–140, 416, 417A–417B, 417–418
<b>b. memorize basic subtraction facts with differences from 10 (MA.1.1.12)</b>	129A–129B, 129–130, 139A–139B, 139–140, 416
<b>13. a. model two digit addition without regrouping (MA.1.1.13)</b>	295A–295B, 295–296, 465–466
<b>b. model two digit subtraction without regrouping (MA.1.1.13)</b>	295A–295B, 295–296, 477–478

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<b>14. add three numbers with a sum of 18 or less (MA.1.1.14)</b>	427A–427B, 427–428, 448, 451, 453
<b>15. solve picture and story problems using multiple strategies (MA.1.1.15)</b>	33A–33B, 33–34, 43K–43L, 45A–45B, 45–46, 55–56, 57A–57B, 57–58, 61A–61B, 61–62, 65A–65B, 65–66, 71A–71B, 71–72, 79A–79B, 79–80, 89K–89L, 91A–91B, 91–92, 99A–99B, 99–100, 103A–103B, 103–104, 109–110, 111A–111B, 111–112, 113A–113B, 113–114, 117, 120, 127A–127B, 127–128, 131–132, 133A–133B, 133–134, 137A–137B, 137–138, 143A–143B, 143–144, 145A–145B, 145–146, 152, 193, 229, 269A–269B, 269–270, 319, 351A–351B, 351–352, 420, 431A–431B, 431–432, 436, 447A–447B, 447–448, 483A–483B, 483–484, 489, 490
<b>B. ALGEBRA</b>	
<b>1. sort and classify objects by more than one attribute (MA.1.2.1)</b>	155I, 159A–159B, 159–160, 167A–167B, 167–168, 170, 307A–307B, 307–308
<b>2. analyze and create a repeating pattern using common objects and numbers (MA.1.2.2)</b>	27A–27B, 27–28, 29A–29B, 29–30, 31A–31B, 31–32, 33A–33B, 33–34, 194, 270, 302
<b>3. use input/output model with functions (MA.1.2.3)</b>	259–260, 261A–261B, 261–262, 270, 275, 278
<b>4. identify and write number patterns by 2's, 5's, and 10's (MA.1.2.4)</b>	255A–255B, 255–256, 257A–257B, 257–258, 259, 262, 269A–269B, 269, 273, 274, 275
<b>5. identify and represent number patterns using words, AB form and T-charts (MA.1.2.5)</b>	239F, 255A–255B, 255–256, 259–260, 261A–261B, 261–262, 270, 275

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<b>6. use models to demonstrate that the quantities on each side of a number sentence are equivalent (MA.1.2.6)</b>	49A–49B, 49–50, 51A–51B, 51–52, 53A–53B, 53–54, 69A–69B, 69–70, 91A–91B, 91–92, 93A–93B, 93–94, 129A–129B, 129–130, 279I, 285A–285B, 285–286, 287A–287B, 287–288, 297A–297B, 297–298, 459A–459B, 459–460
<b>C. GEOMETRY</b>	
<b>1. draw and describe according to number of sides and vertices (MA.1.3.1)</b> <ul style="list-style-type: none"> <li>• triangles</li> <li>• squares</li> <li>• circles</li> <li>• rectangles</li> </ul>	167A–167B, 167–168
<b>2. use physical materials to construct, identify, and classify three dimensional figures (MA.1.3.2)</b> <ul style="list-style-type: none"> <li>• cube</li> <li>• cone</li> <li>• sphere</li> <li>• rectangular solid</li> <li>• pyramid</li> <li>• cylinder</li> </ul>	157B, 157–158, 193A–193B, 193–194
<b>3. identify three dimensional shapes in the environment (MA.1.3.3)</b>	157A–157B, 157, 193A–193B, 193–194, 229
<b>4. identify and draw open and closed figures (MA.1.3.4)</b>	197

<b>West Virginia Specific Criteria</b>	<b>Scott Foresman - Addison Wesley Mathematics</b>
5. <b>identify, determine, and draw a line of symmetry (MA.1.3.5)</b>	171A–171B, 171–172, 194, 199
6. <b>identify and draw plane shapes that are congruent (MA.1.3.6)</b>	169A–169B, 169–170
7. <b>describe spatial relationships (MA.1.3.7)</b> <ul style="list-style-type: none"> <li>• over/under</li> <li>• left/right</li> </ul>	315A–315B, 315–316
8. <b>find and name locations with simple relationships on a coordinate system (MA.1.3.8)</b>	315A–315B, 315–316, 317A–317B, 317–318
9. <b>describe the shape created by combining two or more two dimensional shapes (MA.1.3.9)</b>	177A–177B, 177–178
<b>D. MEASUREMENT</b>	
1. <b>estimate, measure, compare, and order using customary, metric, and nonstandard units to determine length to nearest whole unit (MA.1.4.1)</b>	365A–365B, 365–366, 369A–369B, 369–370, 371A–371B, 371–372, 373A–373B, 373–374, 375A–375B, 375–376, 409
2. <b>understand conversions within a system of measurement (MA.1.4.2)</b>	363, 373A–373B, 373



West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<p><b>3. compare two objects or events according to one or more of the following attributes (MA.1.4.3)</b></p> <ul style="list-style-type: none"> <li>• length</li> <li>• height</li> <li>• weight</li> <li>• time temperature</li> <li>• volume</li> </ul>	374, 367–368, 389A–389B, 389–390, 405, 409, 412
<p><b>4. name the months of the year and find a date on a monthly calendar (MA.1.4.4)</b></p>	227A–227B, 227–228
<p><b>5. explain time concept in context of personal experience (MA.1.4.5)</b></p>	203, 205A–205B, 205–206, 234
<p><b>6. read time to the half hour using an analog and digital clock (MA.1.4.6)</b></p>	203K–203L, 211A–211B, 211–212, 223, 229A–229B, 229–230, 233, 234, 236
<p><b>7. calculate elapsed time to the hour (MA.1.4.7)</b></p>	213–214, 215A–215B, 215–216, 224, 230, 236, 270
<p><b>8. identify the name and value of quarter and dollar (MA.1.4.8)</b></p>	343A–343B, 343, 347A–347B, 347–348, 354, 406
<p><b>9. a. count a collection of pennies, nickels, and dimes with a total value of 100 cents or less (MA.1.4.9)</b></p>	329K–329L, 329, 330, 331A–331B, 331–332, 333A–333B, 333–334, 335A–335B, 335–336, 337A–337B, 337–338, 358, 359
<p><b>b. trade a collection of pennies, nickels, dimes with a total value of 100 cents or less (MA.1.4.9)</b></p>	329K–329L, 330, 333A–333B

<b>West Virginia Specific Criteria</b>	<b>Scott Foresman - Addison Wesley Mathematics</b>
<b>10. role-play making change up to a dime (MA.1.4.10)</b>	339A–339B, 339–340, 415K–415L
<b>11. select the appropriate tools of measurement to determine (MA.1.4.11)</b> <ul style="list-style-type: none"> <li>• length</li> <li>• weight</li> <li>• volume</li> <li>• temperature</li> </ul>	397A–397B, 397–398, 411
<b>E. DATA ANALYSIS AND PROBABILITY</b>	
<b>1. identify and investigate various forms of data collection (MA.1.5.1)</b>	309A–309B, 309–310, 311A–311B, 311–312, 324
<b>2. read and interpret a pictograph with each picture representing a single unit (MA.1.5.2)</b>	309A–309B, 309–310
<b>3. conduct simple experiments and use the data to predict which of the events is more likely to less likely to occur if the experiment is repeated (MA.1.5.3)</b>	313, 364, 403A–403B, 403–404
<b>4. discuss events related to student’s experiences as likely or unlikely (MA.1.5.4)</b>	259–260, 364
<b>5. a. tally by ones, organize the data in a chart/table, and construct a bar graph (MA.1.5.5)</b>	313A–313B, 313–314, 320, 324, 364

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<b>b. read and interpret tally charts and tables (MA.1.5.5)</b>	313A–313B, 313–314, 320, 324
<b>6. analyze data represented on a graph (MA.1.5.6)</b>	309A–309B, 309–310, 311A–311B, 311–312, 324, 479–480, 481A–481B, 481–482

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Specific Criteria for Content and Skills  
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All materials at this grade level (1) be research based and theory driven; (2) incorporate basic, accurate information that is developmentally appropriate; (3) use interactive activities that actively engage students; (4) provide students with opportunities to model and practice relevant skills; (5) develop higher order thinking opportunities; and (6) be based on national standards. The instructional materials should provide students with opportunities to:

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>A. NUMBER AND OPERATIONS</b>	
<b>1. read, write, order and compare numbers to 1000 (MA.2.1.1)</b>	81A–81B, 81–82, 83A–83B, 83–84, 85A–85B, 85–86, 91A–91B, 91–92, 97A–97B, 97–98, 99A–99B, 99–100, 115A–115B, 115–116, 163B, 163–164, 391A–391B, 391–392, 399A–399B, 399–400, 407A–407B, 407–408, 409A–409B, 409–410, 415B, 415–416, 419, 421
<b>2. identify any number as odd or even (MA.2.1.2)</b>	79, 101A–101B, 101–102
<b>3. count and group concrete items by 1’s, 10’s and 100’s to 1000 (MA.2.1.3)</b>	81A–81B, 81–82, 83A–83B, 83–84, 89A–89B, 89–90, 391A–391B, 391–392, 393A–393B, 393–394, 395A–395B, 395–396
<b>4. model and identify place value of each digit utilizing standard and expanded form through 1000 (MA.2.1.4)</b>	81A–81B, 81–82, 83A–83B, 83–84, 389, 393A–393B, 393–394, 395A–395B, 395–396, 416
<b>5. identify and read any ordinal number (MA.2.1.5)</b>	103A–103B, 103–104, 304

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
6. round to nearer 10 and 100 any three digit number (MA.2.1.6)	427A–427B, 427–428, 429A–429B, 429–430, 445A–445B, 445–446, 454
7. a. identify and name fractions as a part of a whole using models (MA.2.1.7)	269A–269B, 269–270, 271A–271B, 271–272, 273A–273B, 273–274, 283
b. identify and name fractions as part of a group using models (MA.2.1.7)	277A–277B, 277–278
8. understand the meaning of operations and the relationship between addition and subtraction (MA.2.1.8) a. identity element	1I, 3B, 3–4, 7–8, 11, 12, 13, 26, 30, 31A, 33, 35–36, 52, 54
b. associative property	173I, 173J, 175A–175B, 175–176
c) commutative property	23A–23B, 23–24, 49A–49B, 49–50
d) inverse operations	65A–65B, 65–66, 67A–67B, 67–68, 227A–227B, 227–228
e) fact families	23A–23B, 23–24, 27A–27B, 27–28, 36, 65A–65B, 65–66, 67A–67B, 67–68
9. a. memorize basic addition facts with sums to 18 (MA.2.1.9)	3A–3B, 3–4, 23A–23B, 23–24, 25A–25B, 25–26, 29A–29B, 29–30, 43A–43B, 43–44, 45A–45B, 45–46, 47A–47B, 47–48, 51A–51B, 51–52, 63A–63B, 63–64, 65A–65B, 65–66, 67A–67B, 67–68
b. memorize basic subtraction facts with differences to 18 (MA.2.1.9)	13A–13B, 13–14, 63A–63B, 63–64, 65A–65B, 65–66, 67B, 67–68

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<b>10. a. model 2 and 3 digit addition with regrouping (MA.2.1.10)</b>	137A–137B, 137–138, 159A–159B, 159–160, 175A–175B, 175–176, 177A–177B, 177–178, 179A–179B, 179–180, 193A–193B, 193–194, 431A–431B, 431–432, 433A–433B, 433–434, 447A–447B, 447–448
<b>b. model 2 and 3 digit subtraction with regrouping (MA.2.1.10)</b>	179A–179B, 179–180, 211A–211B, 211–212, 213A–213B, 213–214, 215A–215B, 215–216, 225A–225B, 225–226, 231A–231B, 231–232, 449A–449B, 449–450
<b>11. add and subtract 2 and 3 digit numbers without regrouping (MA.2.1.11)</b>	139–140, 145B, 145–146, 147A–147B, 147–148, 159–160, 175B, 175–176, 177–178, 179A–179B, 179–180, 181A–181B, 181–182, 193A–193B, 193–194, 211A–211B, 211–212, 213A–213B, 213–214, 231A–231B, 231–232, 397A–397B, 397–398, 427A–427B, 427–428
<b>12. use rounding to determine the reasonableness of a sum or a difference (MA.2.1.12)</b>	191A–191B, 191–192, 229A–229B, 229–230, 429A–429B, 429–430, 445A–445B, 445–446
<b>13. solve story problems that require one or two step solutions using multiple strategies (MA.2.1.13)</b>	5A–5B, 5–6, 7–8, 9A–9B, 9–10, 17A–17B, 17–18, 19A–19B, 19–20, 31A–31B, 31–32, 57A–57B, 57–58, 69A–69B, 69–70, 161A–161B, 161–162, 163A–163B, 163–164, 170, 199A–199B, 199–200, 205, 206, 235A–235B, 235–236, 377A–377B, 377–378, 415A–415B, 415–416, 462
<b>B. ALGEBRA</b>	
<b>1. a. analyze, describe and extend a growing pattern (MA.2.2.1)</b>	99A–99B, 99–100, 157A–157B, 157–158, 413A–413B, 413–414

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b. create a growing pattern (MA.2.2.1)	99A–99B, 157, 413B, 413
2. use input/output model with functions (MA.2.2.2)	119A–119B, 119–120, 167, 170
3. model and identify patterns of counting by 3's and 4's (MA.2.2.3)	99A–99B, 99–100, 467A–467B, 467–468
4. given the rule, complete the pattern (MA.2.2.4)	99A–99B, 99–100, 102, 157A–157B, 157–158, 167, 413A–413B, 413–414
5. use models to demonstrate equivalency of two numerical expressions written as a number sentence (MA.2.2.5)	23A–23B, 23–24, 25A–25B, 25–26, 27A–27B, 27–28, 35, 36, 51A–51B, 51–52, 53A–53B, 53–54
<b>C. GEOMETRY</b>	
<b>1. identify and describe according to the number of faces and edges (MA.2.3.1)</b> <ul style="list-style-type: none"> <li>• cube</li> <li>• rectangular solid</li> <li>• cylinder</li> <li>• cone</li> <li>• pyramid</li> </ul>	246, 247A–247B, 247–248, 249A–249B, 249–250, 285
2. compare and contrast plane and solid geometric shapes (MA.2.3.2)	249A–249B, 249–250, 265A–265B, 265–266
3. given a design, draw the mirror image (MA.2.3.3)	261A–261B, 261–262, 286

<b>West Virginia Specific Criteria</b>	<b>Scott Foresman - Addison Wesley Mathematics</b>
<b>4. model line segments and angles (MA.2.3.4)</b>	255A–255B, 255–256, 265A–265B, 265–266
<b>5. identify the congruent shape that has been rotated and/or reflected (MA.2.3.5)</b>	257A–257B, 257–258, 259A–259B, 259–260
<b>6. plot locations with simple relationships on a coordinate plane (MA.2.3.6)</b>	325A–325B, 325–326
<b>7. identify and draw similar shapes (MA.2.3.7)</b>	255A–255B, 255–256, 258, 262
<b>D. MEASUREMENT</b>	
<b>1. use a ruler to draw and compare lengths, given lengths in centimeters and inches (MA.2.4.1)</b>	343A–343B, 343–344, 347A–347B, 347–348, 379
<b>2. estimate and determine the perimeter of a polygon (MA.2.4.2)</b>	351A–351B, 351–352, 384
<b>3. estimate and count the number of square units needed to cover a given area (MA.2.4.3)</b>	351A–351B, 351–352, 359A–359B, 359–360
<b>4. understand conversions within a system of measurements (MA.2.4.4)</b>	305A–305B, 305–306, 355A–355B, 355–356
<b>5. estimate and determine weight/mass of familiar objects in pounds and kilograms (MA.2.4.5)</b>	365A–365B, 365–366, 367A–367B, 367–368



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<b>6. order events in relation to time (MA.2.4.6)</b>	294, 301A–301B, 301–302, 309, 329–330
<b>7. given a calendar, determine past and future days of the week and identify specific dates (MA.2.4.6)</b>	303A–303B, 303–304
<b>8. read time to the quarter hour using an analog and digital clock (MA.2.4.8)</b>	293A–293B, 293–294, 295A–295B, 295–296, 299A–299B, 299–300, 306, 329
<b>9. calculate elapsed time to the half hour (MA.2.4.9)</b>	299A–299B, 299–300, 305–306, 455
<b>10. read, write, and count amounts of money to a dollar (MA.2.4.10)</b>	109A–109B, 109–110, 111A–111B, 111–112, 113A–113B, 113–114, 115A–115B, 115–116, 117A–117B, 117–118, 121A–121B, 121–122
<b>11. role-play making change to a dollar (MA.2.4.11)</b>	119A–119B, 119–120, 225A–225B, 225–226
<b>12. read Celsius and Fahrenheit thermometers (MA.2.4.12)</b>	369A–369B, 369–370
<b>E. DATA ANALYSIS AND PROBABILITY</b>	
<b>1. create, read, and interpret a pictograph with each picture representing greater than or equal to a single unit (MA.2.5.1)</b>	319A–319B, 319–320, 327A–327B, 327–328
<b>2. conduct a simple experiment with more than two outcomes and use the data to predict which event is more, less, or equally likely to occur if the experiment is repeated (MA.2.5.2)</b>	373A–373B, 373–374, 376

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<b>3. analyze data represented on a graph (MA.2.5.3)</b>	105A–105B, 105–106, 313A–313B, 313–314, 321A–321B, 321–322, 327A–327B, 327–328, 405A–405B, 405–406, 437–438, 439A–439B, 439–440
<b>4. formulate questions, collect data, organize, and display as a chart/graph (MA.2.5.4)</b>	117A–117B, 117–118, 311A–311B, 311–312, 313A–313B, 313–314, 321A–321B, 321–322, 439A–439B, 439–440

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West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>A. NUMBER AND OPERATIONS</b>	
<b>1. read, write, order and compare numbers to 10,000 (MA.3.1.1)</b>	6A-6B, 6-7, 8A-8B, 8-9, 10A-10B, 10-11, 13, 18A-18B, 18-21, 22A-22B, 22-23, 44A-44B, 44-45, 48-49, 50, 56-58, 60-62, 71, 105, 168A-168B, 168-169, 185, 189, 445, 720
<b>2. read, write, order, and compare decimals to hundredths with models (MA.3.1.2)</b>	562I, 564A-564B, 564-565, 566A-566B, 568A-568B, 568-570, 566-567, 575, 596, 602-603, 606-607
<b>3. identify place value of each digit utilizing standard and expanded form to 10,000 (MA.3.1.3)</b>	6A-6B, 6-7, 8A-8B, 8-9, 10A-10B, 10-11, 12A-12B, 12-13, 21, 44, 103, 170
<b>4. estimate to nearer 10,000 and 1,000 using rounding, benchmarks, and compatible numbers (MA.3.1.4)</b>	86A-86B, 86-89, 91, 92, 98A-98B, 98-101, 102A-102B, 102-103, 105, 106, 111, 118-119, 122-123, 127, 130, 134, 137, 149, 153, 157, 160A-160B, 160-161, 182-184, 189, 335, 349, 590, 616A-616B, 616-617

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<p><b>5. use models and pictorial representations to identify fractions as part of (MA.3.1.5)</b></p> <ul style="list-style-type: none"> <li>• a whole/one</li> <li>• a group</li> </ul>	<p>498A–498B, 498–501, 502A–502B, 502–503, 504A–504B, 504–505, 506A–506B, 506–509, 512A–512B, 512–513, 514, 516A–516B, 516–517, 518A–518B, 518–519, 530, 542, 547, 552, 554–555, 558–559</p>
<p><b>6. compare and order fractions with like and unlike denominators using concrete models (MA.3.1.6)</b></p>	<p>506A–506B, 506–509, 511, 513, 514, 548, 554, 558</p>
<p><b>7. use concrete models and pictorial representations to add and subtract fractions with like denominators (MA.3.1.7)</b></p>	<p>520A–520B, 520–521, 525, 556, 560</p>
<p><b>8. recognize and model equivalent fractions using concrete materials (MA.3.1.8)</b></p>	<p>504A–504B, 504–505, 509, 554, 558</p>
<p><b>9. recognize and model proper and improper fractions and mixed numbers (MA.3.1.9)</b></p>	<p>522A–522B, 522–523, 530, 533, 548, 556, 560</p>
<p><b>10. add and subtract 2- and 3-digit whole numbers and money without and with regrouping (MA.3.1.10)</b></p>	<p>15, 25A–25B, 25–26, 80A–80B, 80–81, 82A–82B, 82–85, 89, 94A–94B, 94–95, 96A–96B, 96–97, 101, 103, 110–111, 117–119, 121–123, 126A–126B, 126–127, 132A–132B, 132–135, 136A–136B, 136–137, 148A–148B, 148–149, 152A–152B, 152–155, 156A–156B, 156–158, 166A–166B, 166–167, 168A–168B, 168–169, 176–177, 182–185, 186–189, 347, 377, 537, 635</p>

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>11. use multiplication as repeated addition and division as repeated subtraction (MA.3.1.11)</b>	260A–260B, 260–261, 262A–262B, 262–263, 274, 275, 276A–276B, 276–279, 310, 372A–372B, 372–373, 377, 401, 418, 422
<b>12. identify the meanings of operations and the relationship between multiplication and division (MA.3.1.12)</b> <ul style="list-style-type: none"> <li>• identity element of multiplication</li> <li>• commutative property</li> <li>• property of zero</li> <li>• fact families</li> <li>• associative property</li> </ul>	263–264, 274, 278, 286A–286B, 286–287, 291, 293, 296, 309, 310–313, 319, 321, 341, 342A–342B, 342–343, 384A–384B, 384–385, 387, 389, 391, 393, 396, 412, 419, 423
<b>13. model multiplication of 2- and 3-digit numbers by a 1-digit number (MA.3.1.14)</b>	612, 626A–626B, 626–628, 631, 646, 647, 666, 671, 675
<b>14. model division of 2- and 3-digit numbers by a 1-digit number (MA.3.1.15)</b>	398A–398B, 398–400, 403, 408, 409, 413, 421, 425, 618, 648A–648B, 648–649, 651, 655, 660, 661, 667, 673, 677
<b>15. solve story problems using multiple strategies. (MA.3.1.16)</b>	14A–14B, 14–15, 32A–32B, 32–33, 42A–42B, 42–43, 44–45, 104–105, 140–143, 160–161, 170–171, 216–217, 270A–270B, 270–273, 332–335, 406–407, 540A–540B, 540–541, 578A–578B, 578–579
<b>B. ALGEBRA</b>	
<b>1. analyze and complete geometric patterns (multiplication progression) (MA.3.2.1)</b>	436–438, 443, 447–449, 483, 488, 492, 553, 579, 601, 669, 721

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
2. use input/output model (MA.3.2.2)	72A–72B, 72–73, 78, 79, 85, 110, 115, 116, 120, 305, 344A–344B, 344–345, 350, 351, 352–353, 354, 359, 363, 367, 417, 553
3. identify and write the rule of a given pattern (MA.3.2.4)	72A–72B, 72–73, 78, 79, 81, 110, 115, 116, 120, 305, 344A–344B, 344–345, 350, 351, 352–353, 354, 359, 363, 367, 417, 553
4. write equivalent numerical expressions (MA.3.2.5)	168A–168B, 168–169, 173, 177, 181, 185
5. use a symbol to represent the idea of a variable as an unknown quantity (MA.3.2.6)	168–169, 172, 173, 175, 185, 189
<b>C. GEOMETRY</b>	
1. identify basic polygons and their components through decagon (MA.3.3.1) <ul style="list-style-type: none"> <li>• octagon</li> <li>• parallelogram</li> <li>• rhombus</li> </ul>	114, 180, 248, 304, 446A–446B, 446–448, 453, 454A–454B, 454–455, 462, 473, 475, 477, 482, 489, 493, 587
2. identify and describe a cube, rectangular solid, cylinder, cone, and pyramid according to the number of faces, edges and vertices (MA.3.3.2)	428A–428B, 428–429, 432A–432B, 432–433, 439, 440, 441, 475, 482, 488–491, 492
3. given a plane drawing, construct, and identify the solid figure (MA.3.3.3)	431, 432A
4. identify, determine, and draw lines of symmetry (MA.3.3.4)	460A–460B, 460–461, 462, 477, 483, 494

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
5. model and describe lines and rays (MA.3.3.5)	442A–442B, 442–443, 444, 449, 463, 482, 488, 493
6. identify and draw right, obtuse, and acute angles (MA.3.3.6)	444A–444B, 444–445, 448–449, 450, 453, 455, 462, 463, 482, 484, 489, 493, 639
7. given a model, draw an example of a flip, slide, and turn [reflection (flip), translation, (slide) and rotation (turn)] (MA.3.3.7)	456A–456B, 457
8. name the location of a point on a one-quadrant grid (MA.3.3.8)	218A–218B, 218–220, 224, 225, 244, 246, 252, 256, 487
<b>D. MEASUREMENT</b>	
1. estimate, measure, compare, order, and draw lengths using inches (to the nearest $\frac{1}{2}$ inch), feet, yards, centimeters, and meters (MA.3.4.1)	54, 304, 532A–532B, 532–533, 534A–534B, 534–535, 536A–536B, 536–537, 538A–538B, 538–539, 544, 545, 556–557, 560–561, 582A–582B, 582–583, 584A–584B, 584–587, 592, 594–595, 597, 599, 600, 604–605, 608–609, 615, 668, 720
2. estimate and count the number of cubes in a rectangular solid to determine volume (MA.3.4.2)	472A–472B, 472–473, 479, 491, 495, 501
3. use modeling to discover the formula for determining the area of rectangle (MA.3.4.3)	468A–468B, 468–470, 476–477, 478, 491, 495
4. use conversions within a system of measure (MA.3.4.4)	54, 114, 536A–536B, 536–537, 538A–538B, 538–539, 544, 545, 551, 552, 557, 561, 563, 565, 680A–680B, 680–683, 685, 695, 698, 699, 718–719, 722–723, 726–727

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5. estimate and measure results of mass/weight in ounces, pounds, grams, and kilograms (MA.3.4.5)	690A–690B, 690–693, 694A–694B, 694–695, 698, 719, 723, 727–728
6. read time to five-minute intervals using analog and digital clocks (MA.3.4.6)	190F, 196A, 196–197, 202, 203, 250
7. calculate elapsed time to quarter-hour (MA.3.4.7)	198A–198B, 198–199, 202, 254, 267, 668
8. read and write amounts of money to \$100.00 (MA.3.4.8)	36A–36B, 36–39, 40, 41, 46, 47, 49, 52–53, 55, 59, 63, 164
9. model making change up to \$10.00 (MA.3.4.9)	40A–40B, 40–41, 46, 47, 51, 53, 55, 59, 63, 69, 105, 157, 165, 391
10. estimate, read, and recognize common temperatures of Celsius and Fahrenheit (MA.3.4.10) <ul style="list-style-type: none"> <li>• room</li> <li>• freezing</li> <li>• boiling</li> </ul>	54, 416, 696A–696B, 696–699, 701, 718–719, 724, 728
<b>E. DATA ANALYSIS AND PROBABILITY</b>	
1. a. collect data from observations, surveys, and experiments (MA.3.5.1)	204A–204B, 204–207, 224, 225, 226, 228A–228B, 231, 232A–232B, 236A–236B, 255
b. construct and label a graph (MA.3.5.1)	204B, 207, 226A–226B, 226–227, 228A–228B, 228–231, 232A–232B, 232–233, 236B, 236–237, 240, 241, 253, 255–257, 417



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<p><b>2. experiment and describe concepts of probability and chance and list possible outcomes (MA.3.5.3)</b></p>	<p>181, 359, 417, 553, 576–577, 578A–578B, 578–579, 580, 583, 597, 601, 604, 608, 669, 700A–700B, 700–701, 702A–702B, 702–703, 704A–704B, 704–707, 708A–708B, 708–709, 712, 713, 721, 724–725, 728–729</p>
<p><b>3. analyze data represented on a graph using grade level appropriate questions (MA.3.5.4)</b></p>	<p>204A–204B, 204–207, 212A–212B, 212–215, 216A–216B, 216–217, 221, 222A–222B, 222–223, 224, 228A–228B, 228–231, 233, 234–235, 237, 240, 243, 245, 249, 251–253, 255–257, 305, 347, 359, 417, 541, 553</p>

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West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>A. NUMBER AND OPERATIONS</b>	
<b>1. read, write, order, and compare numbers to the millions place (MA.4.1.1)</b>	4A–4B, 4–7, 8A–8B, 8–9, 10A–10B, 10–11, 16A–16B, 16–19, 40A–40B, 40
<b>2. use pictorial representation to read, write, order, and compare decimals to thousandths with and without models (MA.4.1.2)</b>	28A–28B, 28–29, 34A–34B, 34–37, 628A–628B, 628–629, 630A–630B, 630–631
<b>3. identify place value of each digit utilizing standard and expanded form through 1,000,000 (MA.4.1.3)</b>	4A–4B, 4–7, 8A–8B, 8–9, 10A–10B, 10–11, 28A–28B, 28–29, 628A–628B, 628–629
<b>4. estimate to nearer 10,000 using rounding, benchmarks, and compatible numbers and identify over and under estimates (MA.4.1.4)</b>	20A–20B, 20–21, 68A–68B, 68–71, 72A–72B, 72–73, 76A–76B, 76–78, 80A–80B, 80–81, 82A–82B, 82–84, 368A–368B, 368–371, 408A–408B, 408–411

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
5. use pictorial representations to	
<ul style="list-style-type: none"> <li>compare and order fractions with like and unlike denominators (MA.4.1.5)</li> </ul>	522A–522B, 522–523, 524A–524B, 524–527, 534A–534B, 534–535
<ul style="list-style-type: none"> <li>add and subtract fractions with like and unlike denominators (MA.4.1.6)</li> </ul>	564A–564B, 564–567, 568A–568B, 568–571, 574A–574B, 574–577, 578A–578B, 578–581
<ul style="list-style-type: none"> <li>recognize and model equivalent fractions (MA.4.1.7)</li> </ul>	516A–516B, 516–519, 520A–520B, 520–521, 624A–624B, 624–627
6. model addition and subtraction of mixed numbers without and with regrouping (MA.4.1.8)	567, 577
7. model the relationship of fractions to decimals using concrete objects and pictorial representations (MA.4.1.9)	624A–624B, 624–627, 682
8. round decimals to the nearest whole, tenth, or hundredth (MA.4.1.10)	632A–632B, 632–635, 636A–636B, 636–637, 679, 683
9. add and subtract decimals to the thousandth place (MA.4.1.11)	638A–638B, 638–640, 642A–642B, 642–645
10. apply the distributive property of multiplication over addition (MA.4.1.12)	132A–132B, 132–134, 262A–262B, 262–263, 264A–264B, 264–267

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>11. memorize basic multiplication facts and corresponding division facts (MA.4.1.13)</b>	128A–128B, 128–131, 132A–132B, 132–135, 136A–136B, 136–137, 150A–150B, 150–151, 152A–152B, 152–153, 256A–256B, 256–257, 314A–314B, 314–315, 366A–366B, 366–367
<b>12. multiply 2- and 3-digit numbers by 1- and 2-digit number (MA.4.1.14)</b>	136A–136B, 136–137, 256A–256B, 256–257, 262A–262B, 262–263, 264A–264B, 264–267, 270A–270B, 270–273, 274A–274B, 274–275, 288A–288B, 288–289, 314A–314B, 314–315, 320A–320B, 320–322, 332A–332B, 332–334, 336A–336B, 336–337, 344A–344B, 344–345
<b>13. divide 2- and 3-digit numbers by 1- and 2-digit numbers (MA.4.1.15)</b>	366A–366B, 366–367, 374A–374B, 374–377, 380A–380B, 380–383, 386A–386B, 386–389, 390A–390B, 390–391, 406A–406B, 406–407, 408A–408B, 408–411
<b>14. apply the order of operations in solving problems (MA.4.1.16)</b>	96A–96B, 96–97, 121
<b>15. solve grade level appropriate story problems using multiple strategies (MA.4.1.17)</b>	12A–12B, 12–13, 24A–24B, 24–25, 38A–38B, 38–39, 40A–40B, 40–41, 47, 140A–140B, 140–143, 156A–156B, 156–157, 168A–168B, 168–169, 234A–234B, 234–235, 278A–278B, 278–281, 290A–290B, 290–291, 292A–292B, 292–293, 512A–512B, 512–513, 648A–648B, 648–649, 696A–696B, 696–697, 714A–714B, 714–715, 716A–716B, 716–717
<b>16. develop fluency in addition and subtraction of all whole numbers (MA.4.1.18)</b>	62A–62B, 62–63, 64A–64B, 64–67, 76A–76B, 76–79, 80A–80B, 80–81, 82A–82B, 82–85, 86A–86B, 86–87, 106–107, 118–120, 291

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>B. ALGEBRA</b>	
1. solve problems involving patterns (MA.4.2.1)	10, 88–89, 90A–90B, 90–91, 109, 116, 120, 140A–140B, 140–143, 164A–164B, 164–165, 172–173, 181, 187, 188, 281, 283, 297, 329, 359, 363, 475
2. use input/output model (MA.4.2.2)	164A–164B, 164–165, 167, 170–171, 183, 185, 187, 496
3. make connections between number patterns and multiples (MA.4.2.3)	128A–128B, 128–131, 136A–136B, 136, 164A, 183, 256A–256B, 256–257, 312I, 312, 314A–314B, 314–315, 319, 342–343, 364, 366A–366B, 366–367, 406A–406B, 406–407
4. use patterns to predict the nth term (MA.4.2.4)	90A–90B, 90–91, 120, 172–173, 297, 312, 342–343, 475
5. use a letter to represent the idea of a variable as an unknown quantity (MA.4.2.5)	160A–160B, 160–162, 164A–164B, 164–165, 166A–166B, 166–167, 173, 183, 187, 688A–688B, 688–689, 690A–690B, 690–691
<b>C. GEOMETRY</b>	
1. identify plane figures and their components (MA.4.3.1)	438A–438B, 438–439, 444A–444B, 444–447, 460A–460B, 460–461
2. compare and contrast quadrilateral shapes (MA.4.3.2)	444B, 445–447, 460B, 460–461
3. describe three-dimensional objects from different perspectives (MA.4.3.3)	434A–434B, 434–437, 484
4. identify and draw intersecting, parallel, and perpendicular lines (MA.4.3.4)	440A–440B, 440–443, 484

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
5. draw, label, compare, and classify acute, right, and obtuse angles (MA.4.3.5)	440A, 441–443, 444A–444B, 445–447, 484, 490–491
6. draw a design with one line of symmetry (MA.4.3.6)	456A–B, 456–457, 485
7. graph/plot ordered pairs on a one-quadrant grid (MA.4.3.7)	212A–212B, 212–215, 219
8. draw and identify parts of a circle: center point, diameter, and radius (MA.4.3.8)	448A–448B, 448–449, 455, 491, 495
<b>D. MEASUREMENT</b>	
1. estimate, measure, compare, order, and draw lengths (to the nearest $\frac{1}{4}$ inch) using customary and metric units (MA.4.4.1)	590A–590B, 590–592, 616, 620, 623, 652A–652B, 652–653, 658A–658B, 658–661, 666B, 667, 673
2. determine and compare areas of rectangles and squares by multiplying length and width (MA.4.4.2)	468A–468B, 468–471, 482, 483, 485, 493, 497
3. model the formula for volume of a rectangular prism (MA.4.4.3)	476A–476B, 476–477, 497
4. use conversions within a system of measure (MA.4.4.4)	192A–192B, 192–195, 246, 250, 592A–592B, 592–593, 594A–594B, 594–595, 596A–596B, 596–599, 601, 602B, 602, 609, 652A–652B, 652–653, 654A–654B, 654–655, 656A–656B, 656–657, 658A–658B, 658–661, 681, 689, 695

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<b>5. read scales of weight, capacity, and temperature and select appropriate unit (MA.4.4.5)</b>	592A–592B, 592–593, 594A–594B, 594–595, 616–617, 620–621, 654A–654B, 654–655, 656A–656B, 656–657, 664A–664B, 664–665, 671, 680–681, 684–685
<b>6. read time to the minute (MA.4.4.6)</b>	190A–190B, 190–191, 197, 202, 203, 246, 250
<b>7. determine elapsed time in hours/minutes within a 24-hour period (MA.4.4.7)</b>	196A–196B, 196–197, 202, 203, 215, 234A, 234, 240, 246, 250
<b>8. count coins and bills and determine correct change (MA.4.4.8)</b>	30A–30B, 30–31, 32A–32B, 32–33, 37, 47, 54–55, 58–59, 62B, 63, 73
<b>E. DATA ANALYSIS AND PROBABILITY</b>	
<b>1. examine the use and misuse of statistics in our society (MA.4.5.1)</b>	232A–232B, 232–233, 249, 253
<b>2. read and interpret information represented on a circle graph (MA.4.5.2)</b>	536A–536B, 536–537, 541, 542, 555, 559, 697
<b>3. collect, organize, display, read, and interpret data from a problem solving situation (MA.4.5.3)</b>	140A–140B, 140–141, 198A–198B, 198–199, 208A–208B, 208–211, 216A–216B, 216–219, 220–221, 222A–222B, 222–223, 230A–230B, 230–231, 232A–232B, 232–233, 241, 290A–290B, 290–291
<b>4. formulate line graphs, bar graphs, tally charts, and tables with scale increments greater than one (MA.4.5.3)</b>	140B, 141–142, 175, 208A–208B, 208–211, 216B, 216–219, 220–221, 222A–222B, 222–223, 232A–232B, 232–233, 234B

<b>West Virginia Specific Criteria</b>	<b>Scott Foresman - Addison Wesley Mathematics</b>
<b>5. list all possible outcomes for an experiment using a tree diagram (MA.4.5.4)</b>	704A–704B, 704–705, 709, 718, 729, 732
<b>6. determine mean, median, mode, and range from collected data (MA.4.5.5)</b>	226A–226B, 226–229, 235, 236, 237, 249, 253, 404A–404B, 404–405, 427, 431



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West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>A. NUMBER AND OPERATIONS</b>	
<b>1. read, write, order, and compare all whole numbers (MA.5.1.1)</b>	4A–4B, 4–5, 6A–6B, 6–7, 14A–14B, 14–17, 50, 56–57, 60–61, 180, 438
<b>2. read, write, order, and compare all decimals (MA.5.1.2)</b>	2I, 8A–8B, 8–11, 12A–12B, 12–13, 17, 48, 50, 56–57, 60, 237
<b>3. identify place value of each digit utilizing standard and expanded form in any whole number (MA.5.1.3)</b>	4A–4B, 4–5, 14A–14B, 14–17, 20, 21, 50, 56–57, 60–61
<b>4. estimate with whole numbers and decimals, including money (MA.5.1.4)</b>	26A–26B, 26–27, 28A–28B, 28–31, 68A–68B, 68–69, 86A–86B, 86–87, 110B, 110–111, 122, 124, 126, 127, 138A–138B, 138–141, 204A–204B, 204–207, 244, 250, 254, 372, 624A–624B, 624–625
<b>5. identify and use the divisibility rules of 2, 3, 5, 9, and 10 (MA.5.1.5)</b>	162A–162B, 162–163, 170, 194, 198

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>6. compare and order fractions, improper fractions, and mixed numbers with like and unlike denominators (e.g., greatest common factor, lowest common multiple) (MA.5.1.6)</b>	404A–404B, 404–405, 414A–414B, 414–415, 416A–416B, 416–417, 418A–418B, 418–419, 420A–420B, 420–423, 445, 451–452, 455–456, 464A–464B, 464–465, 518, 522
<b>7. model and write equivalencies of fractions, decimals, percents, and ratios (MA.5.1.7)</b>	8A–8B, 8–10, 400A–400B, 400–401, 410A–410B, 410–411, 412A–412B, 412–413, 416A–416B, 416–417, 426A–426B, 426–429, 438A–438B, 438–439, 646A–646B, 646–647, 648A–648B, 648–651, 652A–652B, 652–653, 668A–668B, 668–689, 670A–670B, 670–671
<b>8. add and subtract fractions and mixed numbers (MA.5.1.8)</b>	460A–460B, 460–461, 462A–462B, 462–463, 466A–466B, 466–468, 472A–472B, 472–473, 475, 476A–476B, 476–477, 478A–478B, 478–481, 512, 518–520, 522–523
<b>9. model multiplication and division of fractions to solve the algorithm (MA.5.1.9)</b>	496A–496B, 496–498, 502A–502B, 502–503, 521, 525
<b>10. model multiplication of decimals and division of decimals by a whole number divisor (MA.5.1.10)</b>	92A–92B, 92–93, 99, 124, 129
<b>11. develop fluency in addition, subtraction, multiplication, and division of whole numbers (MA.5.1.11)</b>	22A–22B, 22–24, 36A–36B, 36–37, 66A–66B, 66–67, 70A–70B, 70–71, 72A–72B, 72–74, 76A–76B, 76–77, 108A–108B, 108–109, 132A–132B, 132–134, 136A–16B, 136–137, 148A–148B, 148–151, 152A–152B, 152–155, 156A–156B, 156–157, 158A–158A, 158–159, 202A–202B, 202–203, 214A–214B, 214–216, 218A–218B, 218–220, 222A–222B, 222–223

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<b>12. solve story problems using multiple strategies (MA.5.1.12)</b>	18A–18B, 18–19, 32A–32B, 32–33, 42A–42B, 42–43, 44A–44B, 44–45, 110A–110B, 110–111, 168A–168B, 168–169, 180B, 180–181, 210A–210B, 210–211, 352A–352B, 352–354, 372–373, 438A–438B, 438–439, 484A–484B, 484–486, 504A–504B, 504–505, 506A–506B, 506–507, 558A–558B, 558–559, 572A–572B, 572–573, 624A–624B, 624–625, 660A–660B, 660–661, 720A–720B, 720–721
<b>B. ALGEBRA</b>	
<b>1. explore a variety of patterns with missing elements (e.g., square numbers, powers, triangular numbers, arithmetic sequences) (MA.5.2.1)</b>	14B, 14, 106, 144–145, 176A–176B, 176–177, 202, 660A–660B, 660–661, 720A–720B, 720–721
<b>2. use input/output model (MA.5.2.2)</b>	106A–106B, 106–107, 109, 112, 113, 117, 125, 129, 135, 187
<b>3. write an equation using a variable to solve problems (MA.5.2.3)</b>	108A–108B, 108–109, 700A–700B, 700–701, 702A–702B, 702–703, 704–705, 706A–706B, 706–708, 737
<b>4. evaluate an expression given a value for the variable (MA.5.2.4)</b>	100A–100B, 100–103, 107, 112, 113, 125, 128, 163, 743
<b>C. GEOMETRY</b>	
<b>1. classify and compare polygons (MA.5.3.1)</b>	340A–340B, 340–341, 342A–342B, 342–345, 346A–346B, 346–348, 356A–356B, 356–357, 372A–372B, 372–373, 385–386, 389–390
<b>2. construct a 3-dimensional figure from different views (orthogonal drawings) (MA.5.3.2)</b>	598A–598B, 598–599, 605, 607, 610

<b>West Virginia Specific Criteria</b>	<b>Scott Foresman - Addison Wesley Mathematics</b>
<b>3. measure angles using a protractor (MA.5.3.3)</b>	332A–332B, 332–335, 338, 339, 384, 388
<b>4. draw a design with more than one line of symmetry (MA.5.3.4)</b>	368A–368B, 368–369, 375, 387, 391
<b>5. identify the images of figures after reflections, translations and rotations (MA.5.3.5)</b>	364A–364B, 364–367, 374, 375, 379, 387, 391, 397, 399
<b>6. draw a similar figure using a scale (MA.5.3.6)</b>	662A–662B, 662–663, 675
<b>D. MEASUREMENT</b>	
<b>1. estimate, measure, compare, order, and draw lengths of real objects in parts of an inch up to 1/8 of an inch and millimeters (MA.5.4.1)</b>	532A–532B, 532–533, 534A–534B, 546, 547, 584, 588–589
<b>2. use appropriate formulas to determine and compare area of triangles and parallelograms (MA.5.4.2)</b>	552A–552B, 552–553, 554A–554B, 554–555, 560, 561, 579, 586, 590
<b>3. use a formula to determine the volume of a rectangular prism (MA.5.4.3)</b>	610A–610B, 610–613, 618, 619, 632, 639, 642
<b>4. identify the relationship between the area and perimeter of a plane figure (MA.5.4.4)</b>	558A–558B, 558–559, 560, 561, 586, 590
<b>5. use conversions within a system of measure and apply to problem solving situations (MA.5.4.5)</b>	528A–528B, 528–529, 536A–536B, 536–539, 562A–562B, 562–563, 614A–614B, 614–615, 616A–616B, 616–617, 620A–620B, 620–621, 622A–622B, 622–623, 640

<b>West Virginia Specific Criteria</b>	<b>Scott Foresman - Addison Wesley Mathematics</b>
6. evaluate and/or measure the weight/mass of real objects in ounces, pounds, tons, grams, and kilograms (MA.5.4.6)	622A–622B, 622–623, 628
7. calculate elapsed time (MA.5.4.7)	564A–564B, 564–567, 574, 575, 579, 587, 591
8. select appropriate customary and metric units and the tools for measuring to desired degree of precision (MA.5.4.8)	531, 532A–532B, 532–533, 534A–534B, 534–535, 546, 547, 584, 588
9. determine actual measurement from scale drawings (MA.5.4.9)	662A–662B, 662–663, 666, 667, 683, 689, 692
<b>E. DATA ANALYSIS AND PROBABILITY</b>	
1. collect, organize, display, read, and interpret data from a problem-solving situation in a stem and leaf plot (MA.5.5.1)	270A–270B, 270–273, 279, 280, 281, 312, 319, 323
2. determine probability and solve problems involving the probability of an event by using tree diagrams or by construction of a sample space (MA.5.5.2)	296A–296B, 296–299, 300A–300B, 300–301, 303, 308, 309, 313, 321, 325
3. construct, read, and interpret tables, charts, and graphs to draw reasonable inferences or verify predictions (MA.5.5.3)	266A–266B, 266–269, 286A–286B, 286–287, 292A–292B, 292–293, 313, 318–320, 652A–652B, 652–653, 660A–660B, 660–661, 720A–720B, 720–721
4. carry out experiments to determine probability (MA.5.5.4)	296A–296B, 296–299, 305

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<b>5. construct a circle graph (MA.5.5.5)</b>	286A–286B, 286–287, 291, 294, 295, 320, 324, 669

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West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>A. NUMBER AND OPERATIONS</b>	
<b>1. read, write, order, and compare numbers using scientific notation. (MA.6.1.1)</b>	110A–110B, 110–111, 120, 125, 127, 134–135, 138–139
<b>2. identify prime and composite numbers up to 100. (MA.6.1.2)</b>	146A–146B, 146–149, 150A, 150, 158, 159, 194, 198
<b>3. use prime factorization to determine</b> <ul style="list-style-type: none"><li>• the greatest common factor and</li><li>• least common multiple. (MA.6.1.3)</li></ul>	150A–150B, 150–151, 152A–152B, 152–153, 158, 159, 188, 194–195, 198–199
<b>4. identify and represent integers on a number line. (MA.6.1.4)</b>	408A–408B, 408–409, 410A–410B, 410, 416, 417, 462, 466
<b>5. use a variety of estimation strategies to solve problems with whole numbers, fractions and decimals (MA.6.1.5)</b>	2I, 14A–14B, 14–15, 16A–16B, 16–17, 18A–18B, 18–19, 20B, 20–21, 52A–52B, 52–53, 55, 80A–80B, 80–81, 82A–82B, 82–83, 170A–170B, 170–171, 182A–182B, 182–183, 216A–216B, 216–217, 226A–226B, 226–227, 256A–256B, 256–257, 281, 676

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<p><b>6. solve problems in context involving all operations (addition, subtraction, multiplication, and division) of (MA.6.1.6)</b></p> <ul style="list-style-type: none"> <li>• whole numbers</li> <li>• fractions</li> <li>• mixed numbers</li> <li>• decimals</li> </ul>	<p>2E, 24A–24B, 24–27, 35, 38, 39, 67, 71, 168B, 168, 173</p>
<p><b>7. identify, demonstrate, and apply the</b></p> <ul style="list-style-type: none"> <li>• distributive</li> <li>• commutative</li> <li>• associative</li> <li>• identity properties (MA.6.1.7)</li> </ul>	<p>28A–28B, 28–29, 30A–30B, 30–31, 32A–32B, 32–35, 68, 72, 79, 82</p>
<p><b>8. convert among fractions, mixed numbers, decimals, and percents (MA.6.1.8)</b></p>	<p>168A–168B, 168–169, 172A–172B, 172–175, 188–189, 358A–358B, 358–361, 368A–368B, 368–369, 394, 520B, 520</p>
<p><b>9. find the percent of a number (MA.6.1.9)</b></p>	<p>366A–366B, 366–367, 368A–368B, 368–369, 370A–370B, 370–371, 373, 374B, 374–375, 395, 520A, 520, 642A–642B, 642–645</p>
<p><b>B. ALGEBRA</b></p>	
<p><b>1. simplify numerical expressions using order of operations (MA.6.2.1)</b></p>	<p>24A–24B, 24–27, 32–35, 67, 71, 180A–180B, 180–181</p>
<p><b>2. identify missing elements in arithmetic and geometric patterns (MA.6.2.2)</b></p>	<p>156A–156B, 156–157, 189, 195, 199, 210–211, 212A–212B, 212–213, 232–233, 234, 240, 243, 716A–716B, 716–717</p>



West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>3. explore a variety of patterns, including</b> <ul style="list-style-type: none"> <li>• perfect squares</li> <li>• square roots</li> <li>• exponents (MA.6.2.3)</li> </ul>	8A–8B, 8–9, 36A–36B, 36–37, 51, 97, 148, 212A–212B, 212–213, 214, 240, 243, 372, 444–446, 490B, 490–491
<b>4. use input/output models and spreadsheet to evaluate functions (MA.6.2.4)</b>	163, 716A–716B, 716–717, 737, 741
<b>5. solve a proportion using cross multiplication (MA.6.2.5)</b>	322A–322B, 322–323, 324B, 325, 341, 347, 350
<b>6. identify like terms and monomials (MA.6.2.6)</b>	40A–40B, 40–42, 274–275, 420, 424, 427, 429
<b>7. model addition, subtraction, multiplication, and division of integers (MA.6.2.7)</b>	418A–418B, 418–421, 422A–422B, 422–424, 426A–426B, 456, 463
<b>8. locate and plot point within the four quadrants (MA.6.2.8)</b>	440A–440B, 440–443, 447, 448A–448B, 448–449, 453, 457, 465, 469
<b>9. use variables to represent and solve real world problems appropriate for the sixth grade using multiple strategies (MA.6.2.9)</b>	40A–40B, 40–43, 48A–48B, 48–51, 54, 112A–112B, 113, 114–115, 116A–116B, 116–118, 228, 274A–274B, 274–275, 276B, 277, 520, 706B, 707, 710A–710B, 710–711, 712A, 712–714, 725
<b>C. GEOMETRY</b>	
<b>1. classify lines as parallel, intersecting, perpendicular, or skew (MA.6.3.1)</b>	472A–472B, 472–475, 492, 493, 532, 536

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
2. determine the sum of measures of angles in polygons (MA.6.3.2)	496A–496B, 496–499, 500–501, 504–505, 526, 533, 537–538
3. bisect a line segment using a compass and straightedge (MA.6.3.3)	484A–484B, 484–487, 492–493, 537
4. draw an angle of a given measure (MA.6.3.4)	476A–475B, 476–478, 493, 536
5. identify line symmetry and rotational symmetry in plane figures. (MA.6.3.5)	514A–514B, 514–515, 522, 523, 535, 539
6. define and sketch similar and congruent plane geometric figures (MA.6.3.6)	506A, 506, 509, 510
<b>D. MEASUREMENT</b>	
1. derive approximation for pi using actual measurements. (MA.6.4.1)	576
2. apply formulas to determine <ul style="list-style-type: none"> <li>• perimeter</li> <li>• circumference</li> <li>• area</li> </ul> of plane figures, including compound figures (MA.6.4.2)	540I, 540J, 564A–564B, 564–567, 568A–568B, 568–569, 570A–570B, 570–571, 572A–572B, 572–575, 576A–576B, 576–579, 580A–580B, 580–581, 582A–582B, 583, 602–603, 604, 611–612, 615–616, 737
3. demonstrate metric and customary conversions (MA.6.4.3)	542A–542B, 542–545, 546A–546B, 546–549, 550A–550B, 550–551, 552A–552B, 552–553, 604, 610, 614
4. investigate and model volume and surface area (MA.6.4.4)	590A–590B, 590–593, 594A–594B, 594–597, 598B, 598–599, 602

West Virginia Specific Criteria	Scott Foresman - Addison Wesley Mathematics
<b>b. determine length, weight/mass, and capacity/volume using metric and customary systems (MA.6.4.5)</b>	160–161, 542A–542B, 542–545, 548–549, 550–550B, 550–551, 552A–552B, 552–553, 610, 614
<b>6. construct scale drawings (MA.6.4.6)</b>	330A–330B, 330–333, 506
<b>E. DATA ANALYSIS AND PROBABILITY</b>	
<b>1. collect, organize, display, and read data using appropriate graphs and tables (MA.6.5.1)</b>	154–155, 156A–156B, 156–157, 620A– 620B, 632A–632B, 632–633, 642A–642B, 642–645, 646–647, 648A–648B, 648–649, 674A–674B, 675–675, 682, 688–691, 692–695, 721
<b>2. interpret data using mean, median, mode, and range (MA.6.5.2)</b>	624A–624B, 624–627, 632A–632B, 632–633, 676–677, 688, 692
<b>3. determine the probability of a given event and express that probability as a ratio, decimal, and percent (MA.6.5.3)</b>	662A–662B, 662–663, 664A–664B, 664–667, 683, 690, 694–695
<b>4. determine combinations, permutations, and probability using sample spaces by (MA.6.5.4)</b> <ul style="list-style-type: none"> <li>• listing</li> <li>• tree diagrams</li> </ul>	36A–36B, 36–37, 262–263, 264A–264B, 264–265, 287, 293, 296, 654A–654B, 654–657, 658A–658B, 658–659, 661, 683, 690, 694