Fifth Grade

Everyday Mathematics®

Learning Goals

Unit 1

1a. **Find the prime factorizations of numbers**
(Beginning) (Lesson 1.9)

1b. **Rename numbers written in exponential notation**
(Beginning/Developing) (Lessons 1.7–1.9)

1c. **Use a divisibility test to determine if a number is divisible by another number**
(Developing/Secure) (Lesson 1.5)

1d. **Identify prime and composite numbers**
(Developing/Secure) (Lessons 1.6, 1.9)

1e. **Understand how square numbers and their square roots are related**
(Developing/Secure) (Lesson 1.8)

1f. **Draw arrays to model multiplication**
(Secure) (Lessons 1.2. 1.7)

1g. **Know multiplication facts**
(Secure) (Lessons 1.2–1.9)

1h. **Identify even and odd numbers**
(Secure) (Lessons 1.4, 1.5)

1i. **Find the factors of numbers**
(Secure) (Lessons 1.3, 1.4, 1.6, 1.9)

Unit 2

2a. **Write and solve open sentences for number stories**
(Beginning) (Lesson 2.4)

2b. **Round numbers to designated places**
(Developing) (Lesson 2.7)

2c. **Make magnitude estimates**
(Developing/Secure) (Lesson 2.7)

2d. **Find the product of multidigit whole numbers and decimals**
(Developing/Secure) (Lessons 2.8, 2.9)

2e. **Know place value to billions**
(Developing/Secure) (Lesson 2.10)

2f. **Find the sum and difference of multidigit whole numbers and decimals**
(Secure) (Lessons 2.2, 2.3)

2g. **Identify the maximum, minimum, median, mode and mean for a data set**
(Secure) (Lesson 2.5)

Unit 3

3a.   Determine angle measures based on relationships between angles
(Developing) (Lessons 3.3–3.5, 3.9)

3b.   Estimate the measure of an angle
(Developing/Secure) (Lessons 3.6, 3.8)

3c.   Measure an angle to within 2°
(Developing/Secure) (Lessons 3.4, 3.9)

3d.   Identify types of angles
(Developing/Secure) (Lessons 3.4, 3.5)

3e.   Identify types of triangles
(Developing/Secure) (Lesson 3.6)

3f.   Identify place value in numbers to billions
(Secure) (Lesson 3.2)

3g.   Know properties of polygons
(Secure) (Lesson 3.7)

3h.   Define and create tessellations
(Secure) (Lesson 3.8)

Unit 4

4a. Divide decimal numbers by whole numbers with no remainders
(Beginning) (Lessons 4.4, 4.5)

4b. Write and solve number sentences with variables for division number stories
(Beginning/Developing) (Lessons 4.5, 4.6)

4c. Find the quotient and remainder of a whole number divided by a 1-digit whole number
(Developing) (Lessons 4.1, 4.2, 4.4, 4.5)

4d. Find the quotient and reminder of a whole number divided by a 2-digit whole number
(Developing) (Lessons 4.2, 4.4, 4.5)

4e. Make magnitude estimates for quotients of whole and decimal numbers divided by whole numbers
(Developing) (Lessons 4.4, 4.5)

4f. Interpret the remainder in division number stories
(Developing) (Lesson 4.5)

4g. Determine the value of a variable; use this value to complete a number sentence
(Developing) (Lesson 4.6)

4h. Know place value to hundredths
(Secure) (Lesson 4.1)

Unit 5

5a. **Add fractions with like denominators**
(Beginning/Developing) (Lesson 5.3)

5b. **Order and compare fractions**
(Developing) (Lesson 5.3)

5c. **Convert between fractions and percents**
(Developing) (Lesson 5.8)

5d. **Draw a circle graph for a set of data**
(Developing) (Lesson 5.11)

5e. **Measure pieces of a circle graph; interpret a circle graph**
(Developing) (Lesson 5.10)

5f. **Convert between fractions and mixed numbers**
(Developing/Secure) (Lesson 5.2)

5g. **Find equivalent fractions**
(Developing/Secure) (Lesson 5.4)

Unit 6

6a. Construct stem-and-leaf plots
(Beginning/Developing) (Lesson 6.3)

6b. Read and interpret stem-and-leaf plots
(Beginning/Developing) (Lesson 6.4)

6c. Add and subtract fractions with like denominators
(Developing) (Lessons 6.8–6.10)

6d. Add and subtract fractions with unlike denominators
(Developing) (Lessons 6.8–6.10)

6e. Understand how sample size affects results
(Developing) (Lesson 6.5)

6f. Find common denominators
(Developing) (Lesson 6.9, 6.10)

6g. Convert between fractions, decimals, and percents
(Developing/Secure) (Lessons 6.5, 6.8, 6.10)

6h. Identify and use data landmarks
(Secure) (Lessons 6.1, 6.5, 6.6)

Unit 7

7a. Understand and apply scientific notation
(Beginning/Developing) (Lesson 7.3)

7b. Understand and apply powers of 10
(Developing) (Lesson 7.2)

7c. Understand and apply order of operations to evaluate expressions and solve number sentences
(Developing) (Lesson 7.5)

7d. Add and subtract integers
(Developing) (Lessons 7.7–7.10)

7e. Understand and apply exponential notation
(Developing/secure) (Lessons 7.1,7.2)

7f. Determine whether number sentences are true or false
(Developing/Secure) (Lesson 7.4)

7g. Understand the function and placement of parentheses in number sentences
(Developing/Secure) (Lesson 7.4)

7h. Compare and order integers
(Developing/Secure) (Lesson 7.6)

Unit 8

8a. **Use an algorithm to multiply mixed numbers**
(Beginning) (Lesson 8.8)

8b. **Use an algorithm to multiply fractions**
(Developing) (Lessons 8.5, 8.7, 8.9)

8c. **Use an algorithm to subtract mixed numbers with like denominators**
(Developing) (Lesson 8.3)

8d. **Find a percent of a number**
(Developing) (Lessons 8.9–8.11)

8e. **Use an algorithm to add mixed numbers**
(Developing/Secure) (Lessons 8.2, 8.4)

8f. **Order and compare fractions**
(Developing/Secure) (Lessons 8.1, 8.2, 8.12)

8g. **Convert among fractions, decimals, and percents**
(Secure) (Lessons 8.8, 8.9)

8h. **Convert between fractions and mixed or whole numbers**
(Secure) (Lessons 8.2, 8.3, 8.8)

8i. **Find common denominators**
(Secure) (Lessons 8.1 8.2, 8.4, 8.12)

Unit 9

9a. **Plot ordered pairs on a four-quadrant coordinate grid**
(Developing) (Lesson 9.3)

9b. **Understand the concept of volume of a figure**
(Developing/Secure) (Lessons 9.8-9.10)

9c. **Use a formula to find the volume of prisms**
(Developing) (Lessons 9.8, 9.9)

9d. **Plot ordered pairs on a one-quadrant coordinate grid**
(Secure) (Lessons 9.1–9.3)

9e. **Identify the base and height of triangles and parallelograms**
(Developing/Secure) (Lessons 9.4–9.6)

9f. **Use a formula to find the area of triangles and parallelograms**
(Developing/Secure) (Lesson 9.6)

9g. **Understand the concept of area of a figure**
(Secure) (Lesson 9.4)

9h. **Use a formula to find the area of rectangles**
(Secure) (Lesson 9.4)

Unit 10

10a. **Solve two-step pan-balance problems**
(Beginning) (Lessons 10.2, 10.5)

10b. **Write algebraic expressions to represent situations**
(Developing) (Lessons 10.3–10.5, 10.7)

10c. **Represent rate problems as formulas, tables, and graphs**
(Developing) (Lessons 10.4–10.7)

10d. **Use formulas to find circumference and area of a circle**
(Developing) (Lessons 10.8–10.9)

10e. **Distinguish between circumference and area of a circle**
(Developing) (Lessons 10.9)

10f. **Solve one-step pan-balance problems**
(Developing/Secure) (Lessons 10.1, 10.5)

10g. **Interpret mystery line plots and graphs**
(Developing) (Lesson 10.7)

Unit 11

11a. **Understand the relationship between the volume of pyramids and prisms, and the volume of cones and cylinders**
(Beginning) (Lesson 11.4)

11b. **Find the surface area of prisms**
(Beginning) (Lesson 11.7)

11c. **Understand how to find the surface area of cylinders**
(Beginning) (Lesson 11.7)

11d. **Understand the concept of capacity and how to calculate it**
(Beginning) (Lesson 11.6)

11e. **Use formulas to find the volume of prisms and cylinders**
(Developing/Secure) (Lesson 11.3)

11f. **Use formulas to find the area of polygons and circles**
(Secure) (Lesson 11.1, 11.4)

11g. **Know the properties of geometric solids**
(Secure) (Lesson 11.1, 11.2)

Unit 12

12a. **Understand and use tree diagrams to solve problems**
(Beginning) (Lesson 12.2)

12b. **Compute the probability of outcomes when choices are equally likely**
(Beginning) (Lesson 12.2)

12c. **Use the Multiplication Counting Principle to find the total number of possible outcomes of a sequence of choices**
(Beginning/Developing) (Lesson 12.2)

12d. **Find the greatest common factor of two numbers**
(Developing) (Lesson 12.1)

12e. **Find the least common multiple of two numbers**
(Developing) (Lesson 2.1)

12f. **Solve ratio and rate number stories**
(Developing/Secure) (Lessons 12.1, 12.3–12.8)

12g. **Find the factors of numbers**
(Secure) (Lesson 12.1)

12h. **Find the prime factorizations of numbers**
(Secure) (Lesson 12.1)