

**CARTERVILLE SCHOOL DISTRICT**  
**MATHEMATICS CURRICULUM**  
**GRADE 5**  
*Revised 2006*

**FIRST NINE WEEKS**

- 1. Uses graphs to analyze data.
- 2. Uses stem and leaf plots to analyze data.
- 3. Finds the range, mode, and median for a set of data.
- 4. Solves problems using a guide.
- 5. Solves problems using an operation.
- 6. Constructs bar graphs.
- 7. Constructs line graphs.
- 8. Explores stem and leaf plots.
- 9. Solves problems using logical reasoning.
- 10. Explores the concept of a million.
- 11. Understands place value relationships.
- 12. Understands, reads, and writes numbers through billions.
- 13. Compares and orders whole numbers.
- 14. Demonstrates ability to rounds greater numbers.
- 15. Shows, reads and writes decimals using tenths and hundredths.
- 16. Explores equivalent decimals.
- 17. Shows, reads, and writes decimals to thousands.
- 18. Recognize decimals to hundredths on a number line.

- 19. Compares and orders decimals.
- 20. Rounds decimals.
- 21. Solves problems by drawing a picture.
- 22. Estimates sums and differences.
- 23. Adds and subtracts whole numbers.
- 24. Adds and subtracts decimals.
- 25. Adds decimals through hundredths.
- 26. Subtracts decimals through hundredths.
- 27. Solves problems by choosing the operation.
- 28. Explores multiplication patterns and properties.
- 29. Rounds to estimate products.
- 30. Multiplies 1-digit and 2-digit numbers.
- 31. Uses the distributive property to multiply.
- 32. Chooses a calculation method.
- 33. Explores patterns with multiples.
- 34. Demonstrates problem-solving techniques.
- 35. Explores decimal patterns.
- 36. Estimates decimal products.
- 37. Multiplies whole numbers and decimals.
- 38. Solves multiple-step problems.
- 39. Explores decimal multiplication.

- 40. Multiplies decimals by decimals.
- 41. Finds high and low estimates.
- 42. Solves problems with decimals and zeros.
- 43. Solves problems using guess and check.

## **SECOND NINE WEEKS**

- 44. Explores patterns to divide.
- 45. Estimates quotients using compatible numbers.
- 46. Explores division with money.
- 47. Divides by 1-digit divisors.
- 48. Solves problems by interpreting remainders.
- 49. Estimates to help place the first digit in a quotient.
- 50. Solves problems with zeros in the quotient.
- 51. Finds mean, median, and mode.
- 52. Explores products and quotients.
- 53. Divides money.
- 54. Divides decimals to thousandths.
- 55. Finds the factors of a number.
- 56. Identifies prime and composite numbers.
- 57. Solves problems by working backwards.
- 58. Computes divisions with multiples of 10.
- 59. Finds high and low estimated quotients.

- 60. Estimates with 2-digit divisors.
- 61. Divides with 2-digit divisors.
- 62. Divides greater numbers with 2-digit divisors.
- 63. Solves problems by choosing a method.
- 64. Divides with zeros in the quotient.
- 65. Explores algebra using expressions.
- 66. Continues to demonstrate problem-solving skills.
- 67. Divides money.
- 68. Divides decimals by 10, 100 and 1000.
- 69. Shows and names lines and angles.
- 70. Measures angles.
- 71. Classifies triangles according to sides and angles.
- 72. Classifies quadrilaterals.
- 73. Solves problems using a simpler problem.
- 74. Identifies similar and congruent polygons.
- 75. Explores congruence and motion.
- 76. Identifies lines of symmetry.
- 77. Problem solving – geometry.

### THIRD NINE WEEKS

- 78. Uses fractions to describe parts of regions, sets, and segments.
- 79. Explores equivalent fractions.
- 80. Uses patterns to recognize and find equivalent fractions.
- 81. Identifies the greatest common factor.
- 82. Determines the simplest form of a fraction.
- 83. Explores comparing and ordering fractions.
- 84. Uses common denominators to compare and order fractions.
- 85. Solves problems by making a table.
- 86. Explores mixed numbers.
- 87. Writes improper fractions as mixed numbers, and mixed numbers as improper fractions.
- 88. Explores comparing and ordering mixed numbers.
- 89. Uses percents to name amounts less than or equal to 1.
- 90. Writes percents as fractions and decimals, and fractions and decimals as percentages.
- 91. Solves problems by making decisions about survey results.
- 92. Adds and subtracts fractions with like denominators.
- 93. Explores the concept of adding fractions.
- 94. Finds the least common denominator (LCD) for 2 or more fractions.
- 95. Adds fractions with unlike denominators.
- 96. Explores the concept of subtracting fractions.
- 97. Subtracts two or more fractions with different denominators.

- 98. Solves problems with too much or too little information.
- 99. Explores the concepts of adding and subtracting mixed numbers.
- 100. Estimates sums and differences of mixed numbers.
- 101. Adds and subtracts mixed numbers.
- 102. Adds mixed numbers with renaming.
- 103. Subtracts mixed numbers using regrouping.
- 104. Solves problems by comparing strategies.
- 105. Measures length using fractional parts of an inch.
- 106. Changes units among feet, yards, and miles.
- 107. Solves problems by making decisions about whether an exact answer or an estimate is needed.
- 108. Explores multiplying whole numbers by fractions.
- 109. Multiplies a whole number by a fraction mentally.
- 110. Estimates the fractional part of a whole.
- 111. Explores the concept of multiplying fractions by fractions.
- 112. Multiplies fractions.
- 113. Solves problems by over-or underestimating.
- 114. Multiplies fractions and whole mixed numbers.
- 115. Multiplies whole numbers and mixed numbers.
- 116. Solves problems by comparing strategies.
- 117. Explores the concept of dividing fractions.
- 118. Explores concepts of estimating and measuring length.

- 119. Changes metric units of measure.
- 120. Expresses meters and centimeters as decimal equivalents of each other.
- 121. Uses decimals when working with centimeters, millimeters, and meters.
- 122. Explores perimeter of polygons.
- 123. Explores perimeter of a rectangle.
- 124. Finds perimeter of a rectangle when measurements are given in mixed units.
- 125. Explores the area of rectangles.
- 126. Solves problems by making decisions about choosing a pet.
- 127. Explores area of triangles.
- 128. Explores area of other polygons.
- 129. Explores area of parallelograms.
- 130. Explores concepts in algebra by balancing equations.
- 131. Solves problems by looking for a pattern.
- 132. Explores the concept of circumference.

#### **FOURTH NINE WEEKS**

- 133. Explores solids.
- 134. Explores patterns with solids.
- 135. Explores nets.
- 136. Explores surface area.

- 137. Solves problems by making decisions about building a birdhouse.
- 138. Makes changes between grams and kilograms.
- 139. Reads temperature on a thermometer and calculate changes in temperature.
- 140. Explores the concept of volume.
- 141. Explores changes among customary units of capacity.
- 142. Explores changes between metric units of capacity.
- 143. Connects units of volume, capacity, and mass.
- 144. Solves problems by comparing strategies.
- 145. Writes and simplifies ratios.
- 146. Uses ratio tables to write proportions.
- 147. Explores equal ratios.
- 148. Solves problems by making decisions about scale drawings.
- 149. Explores percent patterns.
- 150. Estimates the percent of a number.
- 151. Finds the percent of a number.
- 152. Explores concepts of probability and fairness.
- 153. Explores predicting from samples.
- 154. Explores predicting from experiments.
- 155. Solves problems by making an organized list.
- 156. Expresses probabilities as fractions.
- 157. Explores expected and experimental results.