

**Argenta-Oreana Middle School  
7<sup>th</sup> Accelerated Math**

Accelerated Math is an independent paced curriculum. Since each student proceeds at their own pace, this document outlines the progress of a median 7<sup>th</sup> grade student.

<b>Date Semester</b>	<b>IL Learning Standards</b>	<b>Unit and/or Essential Question Content and/or Skills</b>	<b>Assessments and/or Products</b>
<b>August &amp; September</b>	<p><b>Math</b> 6.A.3 6.B.3a 6.B.3b 6.B.3c 6.C.3a 6.C.3b 7.A.3a 7.B.3 8.D.3c</p>	<p style="text-align: center;"><b>Whole Number and Decimal Concepts</b></p> <ol style="list-style-type: none"> <li>1. Prime and composite numbers</li> <li>2. Prime factorization</li> <li>3. Evaluate exponents</li> <li>4. Multiply with exponents</li> <li>5. Order of operations</li> <li>6. Simplify with grouping symbols</li> <li>7. Compare and order decimals</li> <li>8. Equivalent decimals</li> <li>9. Round decimals</li> <li>10. Decimal standard form to expanded notation</li> <li>11. Scientific notation, numbers greater than 10</li> <li>12. Scientific notation, numbers less than 1</li> <li>13. Add decimals</li> <li>14. Subtract decimals</li> <li>15. Round decimal sum and difference to nearest whole number</li> <li>16. WP: Round decimal sum and difference to nearest whole number</li> <li>17. Round decimal sum and difference to greatest place</li> <li>18. WP: Round decimal sum and difference to greatest place</li> <li>19. Estimate decimal products, round</li> <li>20. WP: Estimate decimal products, round</li> <li>21. Estimate decimal quotients, compatible numbers</li> <li>22. WP: Estimate decimal quotients, compatible numbers</li> <li>23. Multiply decimals</li> </ol>	<p>Students will complete objective practices and tests (multiple choice)</p>

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		24. Multiply decimals by a power of 10 25. Multiply money expressions by whole numbers 26. Divide decimals by whole numbers 27. Divide decimals by a power of 10 28. Divide decimals by decimals 29. Divide whole numbers by decimals 30. WP: Divide decimals 31. Order of operations with decimals 32. Properties of addition and multiplication 33. Square root of perfect squares Treasure Hunt:: Students will use metric rulers to follow a set of directions navigating a map of the State of Illinois Skills: Measuring to the nearest millimeter	
<b>November</b>	<b>Math</b> 6.A.3 6.B.3a 6.B.3b 6.C.3a 6.C.3b 7.A.3a 10.C.3a 10.C.3b	<p style="text-align: center;"><b>Fractions and Probability</b></p> 51. Compare and order fractions 52. Simplify fractions 53. Estimate fraction sums and differences, round 54. WP: Estimate fraction sums, round 55. WP: Estimate fraction differences, round 56. Add unlike fractions 57. Add unlike mixed numbers 58. Subtract unlike fractions 59. Subtract mixed numbers from whole numbers 60. Subtract unlike mixed numbers 61. WP: Subtract fractions and mixed numbers 62. Estimate fraction products and quotients 63. WP: Estimate fraction products and quotients 64. Multiply fractions 65. Multiply mixed numbers by fractions 66. Multiply mixed numbers	Students will complete objective practices and tests (multiple choice)

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		67. Multiply fractions by whole numbers 68. WP: Multiply fractions and mixed numbers 69. Divide fractions 70. Divide mixed numbers 71. Probability of single events 72. Probability of complements of events 73. Probability of independent and dependent events 74. Probability of compound events 75. Odds of an event  Treasure Hunt:: Students will use U.S. Customary rulers to follow a set of directions navigating a map of the State of Illinois Skills: Measuring to the nearest 1/8 of an inch	
<b>December</b>	6.A.3	<p style="text-align: center;"><b>Fractions, Percents, and Decimals</b></p> 76. Decimals to mixed numbers and fractions 77. Mixed numbers to decimals 78. Fractions to repeating decimals 79. Decimals to percents 80. Percents to decimals 81. Mixed number percents to decimals 82. Percents to fractions 83. Fractions to percents	Students will complete objective practices and tests (multiple choice)
January	6.B.3a 6.C.3a 6.D.3 7.C.3a 8.A.3b 8.C.3 8.D.3a	<p style="text-align: center;"><b>Ratios, Proportions, and Percents</b></p> 84. Ratios as fractions, lowest terms 85. Ratios as rates, lowest terms 86. Ratios as percents 87. Equivalent ratios 88. Unit rates 89. Ratios and proportions 90. Write ratios	Students will complete objective practices and tests (multiple choice)

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	8.D.3b	91. Solve proportions 92. Scale drawings 93. Percent of decrease 94. Percent of increase 95. Percent of a number 96. WP: Percent of a number 97. Find total when percent is known 98. WP: Find total when percent is known 99. Find percent when total is known 100. WP: Find percent when total is known 101. WP: Discounts 102. WP: Simple interest  <b>Scale Drawing: Students will make a scale drawing of the school.</b> Skills: Measure with meter sticks and metric rulers. Using proportions	
<b>February</b>	6.C.3a 6.D.3 7.A.3a 7.A.3b 7.B.3 9.A.3a 9.A.3b 9.A.3c 9.B.3 9.C.3a 9.C.3b 9.D.3	<p style="text-align: center;"><b>Measurement</b></p> 103. Estimate capacity (customary and metric) 104. Choose unit of measure (customary and metric) 105. Convert customary length 106. Convert customary weight 107. Convert customary capacity 108. Convert metric length 109. Convert metric weight 110. Convert metric capacity  <p style="text-align: center;"><b>Geometry Concepts</b></p> 111. Classify angles 112. Measure angles 113. Supplementary, complementary, and adjacent angle 114. Identify polygons 115. Classify quadrilaterals 116. Classify triangles by angles and sides 117. Congruent and similar figures 118. Corresponding parts of similar figures	Students will complete objective practices and tests (multiple choice)

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		119. Similar triangles 120. WP: Similar triangles 121. Missing angle in triangles 122. Classify plane or solid figures 123. Solids 124. Parts of solid figures 125. Count faces, edges, and vertices 126. Lines of symmetry 127. Flips, turns, and slides 128. Intersecting, parallel, and perpendicular lines 129. Angles formed by parallel lines and transversals 130. Parts of a circle Treasure Hunt:: Students will use metric rulers and protractors to follow a set of directions navigating a map of the State of Illinois <b>Skills: Measuring to the nearest millimeter</b> Using a protractor to measure to the nearest degree	
<b>March</b>	7.A.3b 7.C.3b 9.C.3b	<p style="text-align: center;"><b>Perimeter, Area, and Volume</b></p> 131. Perimeter of polygons 132. Circumference of circles 133. WP: Circumference of circles 134. Estimate area 135. Area of rectangles and squares 136. WP: Areas of rectangles and squares 137. Area of parallelograms 138. Area of triangles 139. Area of trapezoids 140. Area of circles 141. Volume of rectangular prisms and cubes 142. Volume of cylinders 143. Volume of cones	Students will complete objective practices and tests (multiple choice)

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<b>April</b>	10.A.3a 10.A.3b 10.A.3c	<b>Graphs and Statistics</b> 144. Bar graphs 145. Double line graphs 146. Circle graphs 147. Frequency tables 148. Line plots 149. Histograms 150. Stem-and-leaf plots 151. Box-and-whisker plots 152. Means of data sets 153. Medians of data sets 154. Modes of data sets 155. Ranges of data sets 156. Permutations 157. Combinations	Students will complete objective practices and tests (multiple choice)
<b>May</b>	6.B.3a 8.A.3a 8.B.3 8.D.3a	<b>Integers</b> 158. Graph integers on number lines 159. Compare & order integers 160. Opposites of integers 161. Add integers 162. Subtract integers 163. Absolute values of integers 164. WP: Add & subtract integers 165. Multiply integers 166. Divide integers 167. WP: Multiply & divide integers 168. Order of operations with integers 169. Arithmetic sequences 170. Arithmetic sequences, nth term 171. Geometric sequences	Students will complete objective practices and tests (multiple choice)