Emmaus Lutheran School Math Curriculum

Rationale based on Scripture

God is the Creator of all things, including Math. Our school is committed to providing students with a quality education in writing so they can function effectively as Christians in their church, community, and country. A quality education in Math will help students succeed in high school, in the work place, and help them witness to friends, neighbors, and co-workers about our Savior.

Exit goals for graduation

Students will demonstrate proficiency, understanding, and/or commitment to the following set of exit goals upon graduation. The level of proficiency of these exit goals will be dependent upon the individual gifts and effort of the student and at what grade the student started attending Emmaus.

- Demonstrate a positive attitude toward Math.
- Able to do mental multiplication.
- Compute fractions in all four math operations.
- Solve ratios and proportions.
- Evaluate variable expressions and polynomials.
- Evaluate exponents.
- Know basic geometry formulas.
- Solve simple probability and statistics problems.
- Graph and locate points on a coordinate planes.
- Factor prime and composite numbers.
- Solve percent computation problems.
- Perform operations on positive and negative integers.
- Know and practice order of operations.
- Understand points, lines, planes, and geometric figures.

Grade specific measureable objectives

At the end of each school year, students will demonstrate proficiency, understanding, and/or commitment to the following set of grade specific measureable objectives in these classifications: knowledge, skills, and attitudes.

The level of proficiency of these measureable objectives will be dependent upon the individual gifts and effort of the student and at what time of year the student started attending Emmaus.

Saxon Math 1 (1st Grade)

Students will be able to…

1. identify today's date. (Lesson 1)
2. make towers for the numbers 1-5. (Lesson 2)
3. write the numbers 1, 4, and 5. (Lesson 3)
4. make towers for the numbers 1-9. (Lesson 4)
5. order the numbers 0-9. (Lesson 4)
6. place an object on a graph. (Lesson 5)
7. write the numbers 2, 3, and 7. (Lesson 5)
8. identify a circle and a square. (Lesson 6)
9. identify the number of sides and angles of a square. (Lesson 6)

10. graph a picture on a pictograph. (Lesson 7)
11. identify most and fewest on a graph. (Lesson 7)
12. identify right and left. (Lesson 7)
13. write the numbers 0, 6, 8, and 9. (Lesson 8)
14. order sets from smallest to largest. (Lesson 9)
15. identify most and fewest. (Lesson 9)
16. order numbers from least to greatest. (Lesson 9)
17. match a number to a set. (Lesson 10)
18. color a bar graph. (Lesson 10)
19. write the number 10. (Lesson 11)
20. identify morning and afternoon. (Lesson 11)
21. identify first, last, between, and middle. (Lesson 11)
22. identify first, second, and third. (Lesson 11)
23. write the number 11. (Lesson 12)
24. act out some, some more and some, some went away stories. (Lesson 12)
25. write the number 12. (Lesson 13)
26. identify a triangle. (Lesson 13)
27. identify the number of sides and angles of a triangle. (Lesson 13)
28. sort by one attribute. (Lesson 13)
29. write the number 13. (Lesson 14)
30. make a shape on a geoboard. (Lesson 14)
31. identify inside and outside. (Lesson 14)
32. write the number 14. (Lesson 15)
33. act out and draw pictures for some, some more and some, some went away stories. (Lesson 15)
34. sort by one attribute. (Lesson 15)
35. write the number 15. (Lesson 16)
36. count pennies. (Lesson 16)
37. write the number 16. (Lesson 17)
38. identify a number between two numbers. (Lesson 17)
39. write the number 17. (Lesson 18)
40. divide a solid in half. (Lesson 18)
41. write the number 18. (Lesson 19)
42. picture and combine sets. (Lesson 19)
43. graph a picture on a pictograph. (Lesson 19)
44. count from 0 to 23. (Lesson 20)
45. write the number 19. (Lesson 21)
46. write addition number sentences. (Lesson 21)
47. write the number 20. (Lesson 22)
48. identify ordinal position to sixth. (Lesson 22)
49. write the number 21. (Lesson 23)
50. recite addition facts: doubles to 10. (Lesson 23)
51. write the number 22. (Lesson 24)
52. identify a rectangle. (Lesson 24)
53. identify the number of sides and angles of a rectangle. (Lesson 24)
54. write the number 23. (Lesson 25)
55. write number sentences for some, some more stories. (Lesson 25)
56. identify the season: fall. (Lesson 25)
57. write the number 24. (Lesson 26)
58. identify the attributes of pattern blocks. (Lesson 26)
59. write the number 25. (Lesson 27)
60. addition facts: doubles to 18. (Lesson 27)
61. write the number 26. (Lesson 28)
62. recite addition facts: doubles to 18. (Lesson 28)
63. write the number 27. (Lesson 29)
64. identify lighter and heavier us a balance. (Lesson 29)
65. recite addition facts: doubles to 18. (Lesson 30)
66. write the number 28. (Lesson 31)
67. cover designs with pattern blocks. (Lesson 31)
68. write the number 29. (Lesson 32)
69. order numbers to 20. (Lesson 32)
70. add 1 to a number. (Lesson 32)
71. write the number 30. (Lesson 33)
72. write number sentences for some, some went away stories. (Lesson 33)
73. write the number 31. (Lesson 34)
74. count backward from 10 to 1. (Lesson 34)
75. add 1 to a number. (Lesson 34)
76. write the number 32. (Lesson 35)
77. identify morning, afternoon, evening, and night. (Lesson 35)
78. measure length and width using nonstandard units. (Lesson 35)
79. write the number 33. (Lesson 36)
80. recite addition facts: add 1. (Lesson 36)
81. write the number 34. (Lesson 37)
82. recite addition facts: add 1. (Lesson 37)
83. write the number 35. (Lesson 38)
84. sort items and create a graph. (Lesson 38)
85. write the number 36. (Lesson 39)
86. weigh objects us nonstandard units. (Lesson 39)
87. find a sum by count on. (Lesson 40)
88. make and read a bar graph. (Lesson 40)
89. oral assessment 4. (Lesson 40)

90. write the number 37. (Lesson 41)
91. addition facts: add 0. (Lesson 41)
92. write the number 38. (Lesson 42)
93. cover a design in different ways. (Lesson 42)
94. identify identical designs. (Lesson 42)
95. write the number 39. (Lesson 43)
96. count by 1's to 100. (Lesson 43)
97. write the number 40. (Lesson 44)
98. subtraction facts: subtract 1. (Lesson 44)
99. write the number 41. (Lesson 45)
100. subtraction facts: subtract 1. (Lesson 45)
101. write the number 42. (Lesson 46)
102. count dimes. (Lesson 46)
103. write the number 43. (Lesson 47)
104. count by 2's. (Lesson 47)
105. write the number 44. (Lesson 48)
106. tell time to the hour. (Lesson 48)
107. write the number 45. (Lesson 49)
108. subtraction facts: subtract 0 and subtract a number from itself. (Lesson 49)
109. order containers by capacity. (Lesson 50)
110. identify 1-cup liquid measure. (Lesson 50)
111. write the number 46. (Lesson 51)
112. identify the even numbers to 20. (Lesson 51)
113. write the number 47. (Lesson 52)
114. identify and locate numbers on a hundred number chart. (Lesson 52)
115. write the number 48. (Lesson 53)
116. count dimes and pennies. (Lesson 53)
117. write the number 49. (Lesson 54)
118. count by 1's and 2's. (Lesson 54)
119. write the number 50. (Lesson 55)
120. follow a recipe. (Lesson 55)
121. identify one half and one fourth. (Lesson 55)
122. write the number 51. (Lesson 56)
123. identify odd and even numbers. (Lesson 56)
124. write the number 52. (Lesson 57)
125. number a clock face. (Lesson 57)
126. show time to the hour on a clock. (Lesson 57)
127. write the number 53. (Lesson 58)
128. add 2 to an even number. (Lesson 58)
129. write the number 54. (Lesson 59)
130. add 2 to an odd number. (Lesson 59)
131. cover a design with pattern blocks. (Lesson 60)
132. sort, count, and record the pattern blocks used to cover a design. (Lesson 60)
133. oral assessment 6. (Lesson 60)
134. write the number 55. (Lesson 61)
135. addition facts: add 2. (Lesson 61)
136. write the number 56. (Lesson 62)
137. compare and order objects by length. (Lesson 62)
138. measure length us nonstandard units. (Lesson 62)
139. write the number 57. (Lesson 63)
140. write the numbers 0-10 using words. (Lesson 63)
141. write the number 58. (Lesson 64)
142. identify pairs. (Lesson 64)
143. write the number 59. (Lesson 65)
144. graph pieces used to cover a design. (Lesson 65)
145. read a graph. (Lesson 65)
146. identify the season: winter. (Lesson 65)
147. write the number 60. (Lesson 66)
148. write money amounts using the cent symbol. (Lesson 66)
149. pay for items us dimes and pennies. (Lesson 66)
150. write the number 61. (Lesson67)
151. divide a square into halves. (Lesson 67)
152. write the number 62. (Lesson 68)
153. subtraction facts: subtract 2. (Lesson 68)
154. write the number 63. (Lesson 69)
155. subtraction facts: subtract 2. (Lesson 69)
156. tally. (Lesson 70)
157. count by 5's. (Lesson 70)
158. oral assessment 7. (Lesson 70)
159. write the number 64. (Lesson 71)
160. use a ruler to draw a line segment. (Lesson 71)
161. write the number 65. (Lesson 72)
162. sort common objects. (Lesson 72)
163. write the number 66. (Lesson 73)
164. add two-digit numbers us dimes and pennies (without regroup). (Lesson 73)
165. write the number 67. (Lesson 74)
166. add two-digit numbers us dimes and pennies (without regroup). (Lesson 74)
167. write the number 68. (Lesson 75)
168. add two-digit numbers us dimes and pennies (without regroup). (Lesson 75)
169. write the number 69. (Lesson 76)
170. addition facts: show doubles plus 1 facts. (Lesson 76)
171. write the number 70. (Lesson 77)

172. addition facts: identify the doubles plus 1 facts. (Lesson 77)
173. write the number 71 (Lesson 78)
174. addition facts: doubles plus 1 facts. (Lesson 78)
175. write the number 72. (Lesson 79)
176. addition facts: doubles plus 1 facts. (Lesson 79)
177. addition facts: doubles plus 1 facts. (Lesson 80)
178. write the number 73. (Lesson 81)
179. add two-digit numbers (without regroup). (Lesson 81)
180. write the number 74. (Lesson 82)
181. identify how many more on a graph. (Lesson 82)
182. write the number 75. (Lesson 83)
183. identify and make congruent shapes. (Lesson 83)
184. write the number 76. (Lesson 84)
185. count large collections. (Lesson 84)
186. group by 10's. (Lesson 84)
187. write the number 77. (Lesson 85)
188. trade pennies for dimes. (Lesson 85)
189. write the number 78. (Lesson 86)
190. add two-digit numbers us dimes and pennies (with regroup). (Lesson 86)
191. write the number 79. (Lesson 87)
192. tell time to the half hour. (Lesson 87)
193. write the number 80. (Lesson 88)
194. divide a square into fourths. (Lesson 88)
195. color halves and fourths. (Lesson 88)
196. write the number 81. (Lesson 89)
197. add 10 to a number. (Lesson 89)
198. count by 10's from a single-digit number. (Lesson 90)
199. write the number 82. (Lesson 91)
200. add 10 to a number. (Lesson 91)
201. write the number 83. (Lesson 92)
202. order numbers to 100. (Lesson 92)
203. write the number 84. (Lesson 92)
204. count by 100's. (Lesson 93)
205. write the number 85. (Lesson 94)
206. addition facts: sums of 10. (Lesson 94)
207. identify a miss addend. (Lesson 94)
208. write the number 86. (Lesson 95)
209. addition facts: sums of 10. (Lesson 95)
210. write the number 87. (Lesson 96)
211. draw congruent shapes and designs. (Lesson 96)
212. write the number 88. (Lesson 97)
213. measure and draw line segments to the nearest inch. (Lesson 97)
214. write the number 89. (Lesson 98)
215. count nickels. (Lesson 98)
216. write the number 90. (Lesson 99)
217. count nickels and pennies. (Lesson 99)
218. order events by time. (Lesson 100)
219. write the number 91. (Lesson 101)
220. subtraction facts: subtract a number from 10. (Lesson 101)
221. write the number 92. (Lesson 102)
222. subtraction facts: subtract a number from 10. (Lesson 102)
223. write the number 93. (Lesson 103)
224. identify dozen and half dozen. (Lesson 103)
225. write the number 94. (Lesson 104)
226. measure using feet. (Lesson 104)
227. write the number 95. (Lesson 105)
228. addition facts: add 9. (Lesson 105)
229. write the number 96. (Lesson 106)
230. addition facts: add 9. (Lesson 106)
231. write the number 97. (Lesson 107)
232. identify one half, one third, and one sixth. (Lesson 107)
233. write the number 98. (Lesson 108)
234. use comparison symbols (>, <, and =). (Lesson 108)
235. write the number 99. (Lesson 109)
236. divide a set of objects by sharing. (Lesson 109)
237. identify quart, gallon, and liter. (Lesson 110)
238. estimate and measure the capacity of a container in cups. (Lesson 110)
239. write the number 100. (Lesson 111)
240. addition facts: four of the last eight facts. (Lesson 111)
241. write the number 101. (Lesson 112)
242. identify geometric solids (cones and spheres). (Lesson 112)
243. write the number 102. (Lesson 113)
244. identify one dollar. (Lesson 113)
245. write the number 103. (Lesson 114)
246. add three single-digit numbers. (Lesson 114)
247. write the number 104. (Lesson 115)
248. addition facts: the last four facts. (Lesson 115)
249. identify the season: spring. (Lesson 115)
250. write the number 105. (Lesson 116)

251. count dimes, nickels, and pennies. (Lesson 116)
252. write the number 106. (Lesson 117)
253. identify fractional parts of a whole. (Lesson 117)
254. write the number 107. (Lesson 118)
255. graph tags on a bar graph. (Lesson 118)
256. write observations about a graph. (Lesson 118)
257. write the number 108. (Lesson 119)
258. measure and draw line segments to the nearest centimeter. (Lesson 119)
259. identify geometric solids (cubes and cylinders). (Lesson 120)
260. write the number 109. (Lesson 121)
261. subtraction facts: differences of 1. (Lesson 121)
262. write the number 110. (Lesson 122)
263. identify a fractional part of a set. (Lesson 122)
264. write the number 111. (Lesson 123)
265. subtract 10 from a number. (Lesson 123)
266. write the number 112. (Lesson 124)
267. identify and draw polygons. (Lesson 124)
268. write the number 113. (Lesson 125)
269. subtraction facts: differences of 2. (Lesson 125)
270. write the number 114. (Lesson 126)
271. identify and count quarters. (Lesson 126)
272. write the number 115. (Lesson 127)
273. subtract two-digit numbers (without regroup). (Lesson 127)
274. write the number 116. (Lesson 128)
275. identify cold, cool, warm, and hot temperatures. (Lesson 128)
276. read a thermometer to the nearest 10 degrees. (Lesson 128)
277. write the number 117. (Lesson 129)
278. subtraction facts: subtract half of a double. (Lesson 129)
279. identify events as certain, likely, or impossible. (Lesson 129)
280. write the number 118. (Lesson 130)
281. identify and count hundreds, tens, and ones. (Lesson 131)
282. write the number 119. (Lesson 132)
283. identify geometric solids. (rectangular prisms) (Lesson 132)
284. subtraction facts: 9 - 4, 9 - 5, 9 - 3, 9 – 6. (Lesson 132)
285. write the number 120. (Lesson 133)
286. represent numbers to 500 us pictures. (Lesson 133)
287. write the number 121. (Lesson 134)
288. subtraction facts: 7 - 3, 7 - 4, 8 - 3, 8 – 5. (Lesson 135)
289. write the number 122. (Lesson 135)
290. identify the season: summer. (Lesson 135)

Saxon Math 2 (2nd Grade)

Students will be able to…

1. read and Identify numbers to 100. (Lesson 1)
2. identify right and left. (Lesson 1)
3. graph data on a graph. (Lesson 2)
4. identifying one more and one less than a number. (Lesson2)
5. tell and show time to the hour. (Lesson 3)
6. write numbers to 100. (Lesson 4)
7. recite addition facts: doubles to 18. (Lesson 5)
8. identify the attributes of pattern blocks. (Lesson 6)
9. identify ordinal position to sixth. (Lesson 7)
10. create and read a repeating pattern. (Lesson 7)
11. identify and act out some, some more stories. (Lesson 8)
12. compare numbers to 50. (Lesson 8)
13. compare and order objects by size (area). (Lesson 9)
14. recite addition facts: adding 0 and adding 1. (Lesson 10)
15. identify addends, sums, and the commutative property of addition. (Lesson 10)
16. cover a design using pattern blocks. (Lesson 10)
17. identify and act out some, some went away stories. (Lesson 11)
18. number a clock face. (Lesson
19. identify the time one hour ago and one hour from now. (Lesson 12)
20. identify even and odd numbers. (Lesson 13)
21. identify ordinal position to twelfth. (Lesson 14)
22. recite addition facts: adding 2. (Lesson 15)
23. create and read a repeating pattern. (Lesson 15)
24. identify weekdays and days of the weekend. (Lesson 16)
25. create and read a pictograph. (Lesson 17)
26. draw a pictograph. (Lesson 17)

27. identify polygons. (Lesson 18)
28. identify fractional parts of a whole. (Lesson 19)
29. recite addition facts: adding 9. (Lesson 20)
30. create a color pattern. (Lesson 20)
31. identify and sort common geometric shapes by attribute. (Lesson 21)
32. draw pictures and writ number sentences for some, some more and some, some went away stories. (Lesson 22)
33. divide a shape in half. (Lesson 23)
34. shade one half of a shape. (Lesson 23)
35. divide a square in half two different ways. (Lesson 24)
36. recite addition facts: doubles plus 1. (Lesson 25)
37. identify geometric shape pieces that differ in one way. (Lesson 25)
38. tell and show time to the half hour. (Lesson 26)
39. read a thermometer to the nearest 10°. (Lesson 27)
40. count dimes and pennies. (Lesson 28)
41. write addition and subtraction fact families. (Lesson 29)
42. recite addition facts: sums of 8 and 9. (Lesson 30)
43. identify geometric shape pieces that are alike in only one way. (Lesson 30)
44. create and read a bar graph. (Lesson 31)
45. tally. (Lesson 32)
46. count by 5's. (Lesson 32)
47. identify horizontal, vertical, and oblique lines. (Lesson 33)
48. divide a whole into halves, fourths, and eighths. (Lesson 34)
49. recite addition facts: sums of 10. (Lesson 35)
50. weigh objects using nonstandard units. (Lesson 35)
51. add 10 to a multiple of 10. (Lesson 36)
52. find missing numbers on a piece of the hundred number chart. (Lesson 36)
53. identify pairs. (Lesson. 37)
54. identify tens and ones. (Lesson 38)
55. identify halves, fourths, and eighths of a whole. (Lesson 39)
56. create and read a bar graph. (Lesson 39)
57. recite addition facts: sums of 11. (Lesson 40)
58. measure with one-inch color tiles. (Lesson 40)
59. name fractional parts of a whole. (Lesson 41)
60. trade pennies for dimes. (Lesson 42)
61. measure line segments to the nearest inch. (Lesson 43)
62. add 10 to a two-digit number. (Lesson 44)
63. recite addition facts: sums of 12. (Lesson 45)
64. identify 1-cup and 1/2-cup measuring cups, tablespoons, teaspoons, and 1/2 teaspoons. (Lesson 45)
65. read a recipe. (Lesson 45)
66. identify similarities and differences among coins. (Lesson 46)
67. count nickels. (Lesson 46)
68. write the date using digits. (Lesson 47)
69. create a bar graph. (Lesson 48)
70. create and read a venn diagram. (Lesson 48)
71. order two-digit numbers. (Lesson 49)
72. recite addition facts: sums of 13 and 14. (Lesson 50)
73. read a recipe. (Lesson 50)
74. measure ingredients for a recipe. (Lesson 50)
75. count dimes, nickels, and pennies. (Lesson 51)
76. identify a line of symmetry. (Lesson 52)
77. create a symmetrical design. (Lesson 52)
78. add two-digit numbers using dimes and pennies. (part 1) (Lesson 53)
79. add two-digit numbers using dimes and pennies. (part 2) (Lesson 54)
80. recite addition facts: sums of 15, 16, 17, and 18. (Lesson 55)
81. measure to the nearest foot. (Lesson 55)
82. draw a number line. (Lesson 56)
83. draw line segments to the nearest inch. (Lesson 56)
84. locate points on a number line. (Lesson 56)
85. make polygons on a geoboard. (Lesson 57)
86. identify the angles of a polygon. (Lesson 57)
87. add three or more single-digit numbers. (Lesson 58)
88. identify the associative property of addition. (Lesson 59)
89. write fractions using fraction notation. (Lesson 59)
90. recite subtraction facts: subtract 0. (Lesson 60)
91. identify and create congruent shapes. (Lesson 60)

92. add two-digit numbers with regrouping, using dimes and pennies (part 1). (Lesson 61)
93. add two-digit numbers with regrouping , using dimes and pennies (part 2). (Lesson 62)
94. use the addition algorithm (part 1). (Lesson 63)
95. use the addition algorithm (part 2). (Lesson 64)
96. recite subtraction facts: subtract 1. (Lesson 65)
97. identify and create similar shapes and designs. (Lesson 65)
98. create and read a venn diagram. (Lesson 66)
99. identify a.m. and p.m. (Lesson 67)
100. identify noon and midnight. (Lesson 67)
101. identify dozen and half dozen. (Lesson 67)
102. add three two-digit numbers. (Lesson 68)
103. read a thermometer to the nearest 2°. (Lesson 69)
104. recite subtraction facts: subtract 2. (Lesson 70)
105. identify and create overlapping geometric shapes. (Lesson 70)
106. subtract 10 from a two-digit number. (Lesson 71)
107. measure and draw line segments to the nearest half inch. (Lesson 72)
108. add two-digit numbers with a sum greater than 100. (Lesson 73)
109. order three-digit numbers. (Lesson 74)
110. recite subtraction facts: subtract 3. (Lesson 75)
111. identify gallon, half-gallon, quart, and liter containers. (Lesson 75)
112. estimate and find the capacity of containers. (Lesson 75)
113. count large collections by group by 10's and by 100's. (Lesson 76)
114. identify the place value of a digit in a three-digit number. (Lesson 76)
115. represent three-digit numbers pictorially. (Lesson 76)
116. show a three-digit number us base ten blocks. (Lesson 77)
117. write a three-digit number for a model or picture. (Lesson 77)
118. tell and show time to five-minute intervals. (Lesson 78)
119. add three two-digit numbers with a sum greater than 100. (Lesson 79)
120. recite subtraction facts: subtract 4. (Lesson 80)
121. cut a geometric shape apart and make a new shape. (Lesson 80)
122. use comparison symbols (>, <, and =). (Lesson 81)
123. read and draw a pictograph with a scale of 2. (Lesson 82)
124. write a fraction to show a part of a set. (Lesson 83)
125. write a number in expanded form. (Lesson 84)
126. recite subtraction facts: subtract 5. (Lesson 85)
127. cover designs with tangram pieces. (Lesson 85)
128. write money amounts us $ and ¢. (Lesson 86)
129. subtract two-digit numbers us dimes and pennies (part 1). (Lesson 87)
130. subtract two-digit numbers us dimes and pennies (part 2). (Lesson 88)
131. subtract two-digit numbers (part 1). (Lesson 89)
132. recite subtraction facts: subtract 6. (Lesson 90)
133. cover the same design in different ways using tangram pieces. (Lesson 90)
134. subtract two-digit numbers (part 2). (Lesson 91)
135. write number sentences to show equal groups. (Lesson 92)
136. multiply by 10. (Lesson 92)
137. count quarters. (Lesson 93)
138. round to the nearest 10. (Lesson 94)
139. recite subtraction facts: subtract 7. (Lesson 95)
140. estimate and count large collections. (Lesson 95)
141. find one half of a set with an even number of objects. (Lesson 96)
142. find one half of a set with an odd number of objects. (Lesson 97)
143. estimate a sum. (Lesson 98)
144. measure using feet and inches. (Lesson 99)
145. recite subtraction facts: subtract 8. (Lesson 100)
146. find the area of shapes using pattern blocks. (Lesson 100)
147. identify geometric solids (cone, cube, sphere, cylinder, rectangular solid, and pyramid). (Lesson 101)
148. measure and draw line segments us centimeters
149. multiply by 1. (Lesson 103)
150. multiply by 100. (Lesson 103)
151. find perimeter. (Lesson 104)
152. recite subtraction facts: subtract 9. (Lesson 105)
153. write observations from a graph. (Lesson 105)

154. tell and show time to the minute. (Lesson 106)
155. count quarters, dimes, nickels, and pennies. (Lesson 107)
156. show money amounts us quarters, dimes, nickels, and pennies. (Lesson 107)
157. identify parallel lines and line segments. (Lesson 108)
158. add three-digit numbers and money amounts. (Lesson 109)
159. recite multiplication facts: multiply by 5. (Lesson 110)
160. draw pictures and write multiplication number sentences to show equal groups. (Lesson 110)
161. measure weight using customary units. (Lesson 110)
162. represent and write mixed numbers (part 1). (Lesson 111)
163. represent and write mixed numbers (part 2). (Lesson 112)
164. create and read a bar graph with a scale of 2. (Lesson 113)
165. identify right angles. (Lesson 114)
166. multiplication facts: multiply by 2. (Lesson 115)
167. estimate area. (Lesson 115)
168. find area using one-inch color tiles. (Lesson 115)
169. act out and draw pictures for equal groups stories. (Lesson 116)
170. write number sentences for equal groups stories. (Lesson 117)
171. identify intersect lines. (Lesson 118)
172. identify perpendicular lines. (Lesson 119)
173. subtract three-digit numbers and money amounts. (Lesson 119)
174. recite multiplication facts: multiply by 3. (Lesson 120)
175. describe the likelihood of an event. (Lesson 120)
176. predict the outcome of a probability experiment. (Lesson 120)
177. make and label an array. (Lesson 121)
178. write number sentences for arrays. (Lesson 122)
179. tell and show time to the quarter hour. (Lesson 123)
180. identify and show transformations: translations, rotations, and reflections. (Lesson 124)
181. multiplication facts: multiply by 4. (Lesson 125)
182. choose a survey question and choices. (Lesson 125)
183. represent data us a graph. (Lesson 125)
184. locate and graph points on a coordinate graph. (Lesson 126)
185. show change for $1.00. (Lesson 127)
186. divide by 2. (Lesson 128)
187. find the area of a rectangle. (Lesson 128)
188. recite multiplication facts: multiply by 0. (Lesson 130)
189. identify the multiples of 2, 3, 4, and 5. (Lesson 130)
190. measure weight (mass) us metric units. (Lesson 131)
191. double a number. (Lesson 132)
192. divide a set of objects into equal groups. (Lesson 133)
193. record information on a graph. (Lesson 134)
194. conduct a probability experiment. (Lesson 135)

Saxon Math 3 (3rd Grade)

Students will be able to…

1. tell and show time to the hour. (Lesson 1)
2. solve elapsed time problems. (Lesson 1)
3. graph data on a bar graph. (Lesson 2)
4. read a graph. (Lesson 2)
5. identify digits and write two-digit numbers. (Lesson 3)
6. tell and show time to the half hour. (Lesson 4)
7. identify addends, sums, and the commutative property of addition. (Lesson 5)
8. recite addition facts: add 0, add 1, and doubles. (Lesson 5)
9. identify a miss addend. (Lesson 5)
10. estimate length to the nearest inch. (Lesson 6)
11. measure and draw line segments to the nearest inch. (Lesson 6)
12. draw congruent line segments. (Lesson 6)
13. identify the properties of a rectangle. (Lesson 7)
14. identify and measure the length and width of a rectangle. (Lesson 7)
15. order two-digit numbers. (Lesson 8)
16. identify even and odd numbers. (Lesson 9)
17. recite subtraction facts: subtract 0 and 1; differences of 0 and 1. (Lesson 10)

18. identify the relative value of pattern blocks. (Lesson 10)
19. cover designs with pattern blocks. (Lesson 10)
20. identify, act out, draw pictures, and write number sentences for some, some more and some, some went away story problems. (Lesson 11)
21. divide squares into two or four equal parts. (Lesson 12)
22. identify congruent shapes. (Lesson 12)
23. count dimes and nickels. (Lesson 13)
24. comparing the values of sets of coins. (Lesson 13)
25. add 10 to a two-digit number and subtract 10 from a two-digit number us mental computation. (Lesson 14)
26. recite addition facts: sums of 10. (Lesson 15)
27. identify the relative value of pattern blocks. (Lesson 15)
28. make a design with a given value us pattern blocks. (Lesson 15)
29. write the date using digits. (Lesson 16)
30. divide squares into two, four, and eight equal parts. (Lesson 17)
31. identify and shade halves, fourths, and eighths. (Lesson 17)
32. read a thermometer to the nearest 10°. (Lesson 18)
33. round a number to the nearest ten. (Lesson 18)
34. round numbers to the nearest ten. (Lesson 19)
35. recite addition facts: add 2. (Lesson 20)
36. write addition and subtraction fact families. (Lesson 20)
37. name and draw polygons. (Lesson 20)
38. divide a square into three equal parts. (Lesson 21)
39. identify and shade thirds. (Lesson 21)
40. rewrite numbers by regroupings tens and ones. (Lesson 22)
41. trade pennies and dimes. (Lesson 22)
42. make an organized list. (Lesson 22)
43. count dimes, nickels, and pennies. (Lesson 23)
44. write fractions using the fraction bar. (Lesson 24)
45. recite addition facts: add 9. (Lesson 25)
46. write fraction number sentences that equal 1. (Lesson 25)
47. identify dozen and half dozen. (Lesson 26)
48. write a fraction to show a part of a set. (Lesson 26)
49. read and write numbers to 1,000 using digits. (Lesson 27)
50. write money amounts using $ and ¢. (Lesson 28)
51. read and shade a thermometer to the nearest 2°. (Lesson 29)
52. recite addition facts: add 3 and 4. (Lesson 30)
53. collect data. (Lesson 30)
54. tally. (Lesson 30)
55. add multiples of 10 using mental computation. (Lesson 31)
56. estimate the sum of two two-digit numbers. (Lesson 31)
57. estimate, measure, and draw line segments using centimeters. (Lesson 32)
58. add a multiple of 10 to a number using mental computation. (Lesson 33)
59. order three-digit numbers. (Lesson 34)
60. list combinations. (Lesson 34)
61. recite addition facts: add 5 and 6. (Lesson 35)
62. write number sentences for some, some more and some, some went away stories. (Lesson 35)
63. write story problems for addition and subtraction number sentences. (Lesson 35)
64. count quarters. (Lesson 36)
65. find half of a set of objects. (Lesson 37)
66. add three or more single-digit numbers. (Lesson 38)
67. tell and show time to five-minute intervals identify a.m. and p.m. (Lesson 39)
68. identify the number of minutes in an hour and the number of hours in a day. (Lesson 39)
69. recite addition facts: add 7 and 8. (Lesson 40)
70. draw and read a pictograph. (Lesson 40)
71. conduct a survey. (Lesson 40)
72. identify place value to hundreds. (Lesson 41)
73. write three-digit numbers in expanded form. (Lesson 41)
74. add two-digit numbers using mental computation. (Lesson 42)
75. name line segments. (Lesson 43)

76. identify a missing digit in an addition problem. (Lesson 44)
77. multiply by 1 and by 10. (Lesson 45)
78. identify factors and products. (Lesson 45)
79. estimate the capacity of containers. (Lesson 45)
80. order containers by capacity. (Lesson 45)
81. identify 1-cup liquid measure. (Lesson 45)
82. identify pint, quart, half-gallon, gallon, and liter containers. (Lesson 45)
83. read a thermometer to the nearest degree. (Lesson 46)
84. identify the freezing and boiling points of water and normal body temperature on the Fahrenheit scale. (Lesson 46)
85. estimate a reasonable temperature. (Lesson 46)
86. using comparison symbols (>, <, and =). (Lesson 47)
87. identify horizontal, vertical, and oblique lines and line segments. (Lesson 48)
88. find perimeter. (Lesson 49)
89. recite subtraction facts: subtract a number from 10. (Lesson 50)
90. make a shape for a given perimeter. (Lesson 50)
91. construct a number line. (Lesson 51)
92. add two-digit numbers us the addition algorithm (part 1). (Lesson 52)
93. using estimation to verify the reasonableness of calculated results. (Lesson 52)
94. add two-digit numbers us the addition algorithm (part 2). (Lesson 53)
95. using estimation to verify the reasonableness of calculated results. (Lesson 53)
96. draw and measure line segments to the nearest half inch. (Lesson 54)
97. recite multiplication facts: multiply by 7. (Lesson 55)
98. locate and name points on a number line with a scale of 10. (Lesson 55)
99. estimate capacity. (Lesson 55)
100. draw a bar graph us a scale of 10. (Lesson 55)
101. act out, draw pictures, and write number sentences for equal groups stories. (Lesson 56)
102. draw pictures and write number sentences for equal groups stories. (Lesson 57)
103. identify and draw lines of symmetry. (Lesson 58)
104. write division problems in three ways. (Lesson 59)
105. divide by 10, by 7, and by 1. (Lesson 59)
106. identify quotients. (Lesson 59)
107. recite subtraction facts: subtract 2; differences of 2. (Lesson 60)
108. measure with cups, tablespoons, and teaspoons. (Lesson 60)
109. read a recipe. (Lesson 60)
110. write a part of a set as a fraction. (Lesson 61)
111. subtract a multiple of 10 from a number us mental computation. (Lesson 62)
112. estimate differences of two two-digit numbers. (Lesson 62)
113. square numbers. (Lesson 63)
114. identify perfect squares. (Lesson 63)
115. simplify expressions with exponents of 2. (Lesson 63)
116. show three- and four-digit numbers us base ten blocks. (Lesson 64)
117. write three- and four-digit numbers for a model or a picture. (Lesson 64)
118. recite subtraction facts: subtract 3 and 4; differences of 3 and 4. (Lesson 65)
119. follow a recipe. (Lesson 65)
120. set a dial and determine elapsed time. (Lesson 65)
121. identify the missing addend in a some, some more story. (Lesson 66)
122. subtract two-digit numbers. (Lesson 67)
123. write numbers to 1,000 us words. (Lesson 68)
124. add and subtract multiples of 100. (Lesson 69)
125. recite multiplication facts: multiply by 2. (Lesson 70)
126. draw and read a line graph. (Lesson 70)
127. tell and showing time to the minute. (Lesson 71)
128. estimate sums and differences of three-digit numbers. (Lesson 72)
129. round a number to the nearest hundred. (Lesson 72)
130. compare fractions with denominators of 2, 3, and 6 using pattern blocks (part 1). (Lesson 73)
131. add and subtract fractions with denominators of 2, 3, and 6 us pattern blocks (part 1). (Lesson 73)
132. write a fraction to show a part of a whole. (Lesson 74)

133. compare fractions with denominators of 2, 3, and 6 using pattern blocks (part 2). (Lesson 74)
134. add and subtract fractions with denominators of 2 , 3 , and 6 us pattern blocks (part 2). (Lesson 74)
135. recite subtraction facts: subtract 5 and 6; differences of 5 and 6. (Lesson 75)
136. read and write roman numerals to 31. (Lesson 75)
137. add three-digit numbers. (Lesson 76)
138. identify ordinal position. (Lesson 77)
139. read and write money amounts to $1,000. (Lesson 78)
140. write money amounts using fractions and decimals. (Lesson 78)
141. write checks. (Lesson 78)
142. select coins for a given amount. (Lesson 79)
143. recite subtraction facts: subtract 7, 8, and 9. (Lesson 80)
144. make reasonable predictions by collecting and analyzing data. (Lesson 80)
145. find square roots of perfect squares. (Lesson 81)
146. add money amounts (decimals). (Lesson 82)
147. read and show the temperature on the Celsius scale. (Lesson 83)
148. identify the number of days in each month. (Lesson 84)
149. identify the number of days in a year. (Lesson 84)
150. recite multiplication facts: multiply by 0. (Lesson 85)
151. identify the commutative property of multiplication. (Lesson 85)
152. recite multiplication facts: multiply by 5. (Lesson 85)
153. estimate and measure distance us feet, yards, and meters. (Lesson 85)
154. identify the number of inches in a foot and in a yard, feet in a yard, and centimeters in a meter. (Lesson 85)
155. identify and solve larger-smaller-difference problems. (Lesson 86)
156. make and draw arrays. (Lesson 87)
157. write number sentences for arrays (Lesson 87)
158. estimate and find the area of a rectangle. (Lesson 88)
159. find the sum of three addends. (Lesson 89)
160. recite division facts: divide by 2 and by 5. (Lesson 90)
161. determine the likelihood of an event. (Lesson 90)
162. determine the fairness of a game. (Lesson 90)
163. subtract two- and three-digit numbers (part 1). (Lesson 91)
164. subtract two- and three-digit numbers (part 2). (Lesson 92)
165. compare and order unit fractions with denominators of 2, 3, 4, and 8 using fraction strips. (Lesson 93)
166. add and subtract fractions with like denominators of 2, 3, 4, and 8 using fraction strips. (Lesson 93)
167. compare fractions with denominators of 2, 3, 4, 5, 6, 8, and 10 us pictures. (Lesson 94)
168. identify fractions that equal ½ using pictures. (Lesson 94)
169. add and subtract fractions with like denominators of 2, 3, 4, 5, 6, 8, and 10. (Lesson 94)
170. recite multiplication facts: multiply by 3. (Lesson 95)
171. identify units of weight and mass: ounces, pounds, tons, grams, and kilograms. (Lesson 95)
172. estimate the mass of an object. (Lesson 95)
173. subtract money amounts (decimals). (Lesson 96)
174. subtract across zeros. (Lesson 96)
175. tell and show time to the quarter hour. (Lesson 97)
176. show fractional amounts greater than 1. (Lesson 98)
177. write mixed numbers. (Lesson 98)
178. measure and draw line segments to the nearest quarter inch. (Lesson 99)
179. multiplication facts: multiply by 4. (Lesson 100)
180. identify parallel lines and line segments. (Lesson 100)
181. identify the properties of quadrilaterals. (Lesson 100)
182. find the missing addend for a sum of 100. (Lesson 101)
183. make change from $1.00. (Lesson 102)
184. read and write five-digit numbers. (Lesson 103)

185. multiply by 100 and by 1,000. (Lesson 103)
186. write a four-digit number in expanded form. (Lesson 104)
187. recite division facts: divide by 3 and by 4. (Lesson 105)
188. write multiplication and division fact families. (Lesson 105)
189. identify perpendicular lines and line segments. (Lesson 105)
190. add money amounts to $99,999.99. (Lesson 106)
191. write checks for money amounts to $99,999.99. (Lesson 106)
192. act out, draw pictures, and writ number sentences for division story problems. (Lesson 107)
193. write number sentences for division story problems. (Lesson 108)
194. multiply a multiple of 10, 100, or 1,000 by a single-digit number. (Lesson 109)
195. multiplication facts: multiply by 9. (Lesson 110)
196. identify transformations: translation, rotation, and reflection. (Lesson 110)
197. identify a fractional part of a set. (Lesson 111)
198. determine age. (Lesson 111)
199. multiply a one-digit and a two-digit number using mental computation. (Lesson 112)
200. identify right, obtuse, and acute angles. (Lesson 113)
201. name triangles by angle size. (Lesson 113)
202. measure line segments using millimeters. (Lesson 114)
203. recite multiplication facts: multiply by 6. (Lesson 115)
204. identify geometric solids. (Lesson 115)
205. construct a cube. (Lesson 115)
206. identify faces, vertices, and edges of a geometric solid. (Lesson 115)
207. multiply a single-digit number and a multi-digit number. (Lesson 116)
208. using the multiplication algorithm. (Lesson 116)
209. identify a function rule. (Lesson 117)
210. simplify expressions contain parentheses. (Lesson 118)
211. multiply three or more factors. (Lesson 118)
212. using the associative property of multiplication. (Lesson 118)
213. write tenths using common and decimal fractions. (Lesson 119)
214. measure to the nearest tenth of a centimeter. (Lesson 119)
215. recite multiplication facts: multiply by 8. (Lesson 120)
216. identify the factors of a number. (Lesson 120)
217. identify prime numbers less than 20. (Lesson 120)
218. find the volume of a rectangular prism. (Lesson 121)
219. divide two- and three-digit multiples of 10 by a one-digit number. (Lesson 122)
220. locate negative numbers on a number line. (Lesson 123)
221. divide a two-digit number by a one-digit number. (Lesson 124)
222. recite division facts: divide by 6, by 8, and by 9. (Lesson 125)
223. locate information on a map. (Lesson 125)
224. show addition, subtraction, and multiplication on a number line. (Lesson 126)
225. identify units of measure for long distances. (Lesson 127)
226. using a scale to find distance on a map. (Lesson 127)
227. add positive and negative numbers. (Lesson 128)
228. create a coordinate plane. (Lesson 128)
229. identify the location of a point on a coordinate plane. (Lesson 129)
230. graph points on a coordinate plane. (Lesson 130)
231. show large numbers us objects. (Lesson 130)
232. round numbers to the nearest thousand. (Lesson 130)
233. compare and order numbers to 10,000. (Lesson 130)
234. write hundredths using common and decimal fractions. (Lesson 131)
235. divide a two-digit number by a one-digit number with a remainder. (Lesson 132)
236. simplify expressions with addition, subtraction, multiplication, and division. (Lesson 133)

237. identify place value to millions. (Lesson 134)
238. estimate a large collection by sampling. (Lesson 135)

Houghton Mifflin Math (4th Grade)

Students will be able to…

1. identify the place value of digits in multi-digit numbers. (Chapter 1)
2. read and write multi-digit whole numbers. (Chapter 1)
3. compare numbers using a number line and a place value chart. (Chapter 1)
4. order numbers by using a place-value chart and comparing the digit values. (Chapter 1)
5. estimate numbers by rounding. (Chapter 1)
6. use the four-step plan to solve problems. (Chapter 1)
7. use addition properties and subtraction rules to add and subtract. (Chapter 2)
8. use patterns to solve addition and subtraction problems. (Chapter 2)
9. use mental math to add and subtract. (Chapter 2)
10. estimate sums and differences of multi-digit numbers. (Chapter 2)
11. add multi- digit whole numbers. (Chapter 2)
12. subtract multi-digit whole numbers. (Chapter 2)
13. subtract multi-digit numbers, when some digits are zeros. (Chapter 2)
14. solve problems by drawing a diagram. (Chapter 2)
15. solve multi-step word problems using addition and subtraction. (Chapter 2)
16. understand how multiplication and division are related. (Chapter 3)
17. relate division and subtraction. (Chapter 3)
18. recognize the comparison of two groups as another strategy to use when multiplying. (Chapter 3)
19. use comparison to solve problems. (Chapter 3)
20. use multiplication properties and division rules. (Chapter 3)
21. use the associative property of counters multiplication to solve problems. (Chapter 3)
22. find factors and multiples of whole numbers. (Chapter 3)
23. check answers for reasonableness. (Chapter 3)
24. multiply multiples of 10,000, and 1,000 using basic facts and patterns. (Chapter 4)
25. estimate products by rounding. (Chapter 4)
26. explore multiplication using models. (Chapter 4)
27. explore multiplication using area models and partial products. (Chapter 4)
28. multiply a two-digit number by a one-digit number. (Chapter 4)
29. explore multiplication with regrouping using models. (Chapter 4)
30. use the distributive property to make multiplication easier. (Chapter 4)
31. multiply a two-digit number by a one-digit number. (Chapter 4)
32. multiply a multi-digit number by a one-digit number. (Chapter 4)
33. use properties and algorithms to multiply by tens. (Chapter 5)
34. estimate products by rounding. (Chapter 5)
35. explore multiplying by two-digit numbers. (Chapter 5)
36. multiply two, two –digit numbers. (Chapter 5)
37. use multiplication to solve multi-step word problems. (Chapter 5)
38. solve problems by making a table. (Chapter 5)
39. estimate quotients, using compatible numbers, basic facts, and place value. (Chapter 6)
40. use place value and models to explore dividing by one- digit numbers. (Chapter 6)
41. solve problems by making a model. (Chapter 6)
42. divide with remainders and check using multiplication and addition. (Chapter 6)
43. interpret what the remainder means in the context of a division problem. (Chapter 6)
44. determine where to place the first digit when dividing. (Chapter 6)
45. use the distributive property and partial. (Chapter 6)
46. solve division problems with greater numbers. (Chapter 6)
47. solve division problems that result in quotients that have zeros. (Chapter 6)

48. solve multi-step word problems using more than one operation. (Chapter 6)
49. describe nonnumeric growing and repeating patterns. (Chapter 7)
50. identify, describe, and extend numeric patterns. (Chapter 7)
51. extend patterns and write observations about the pattern. (Chapter 7)
52. look for a pattern to solve problems. (Chapter 7)
53. find and use rules to write addition and subtraction equations. (Chapter 7)
54. find and use rules to write multiplication and division equations. (Chapter 7)
55. use order of operation to solve problems. (Chapter 7)
56. explore equations with two operations. (Chapter 7)
57. use tables to recognize and write equations with two operations. (Chapter 7)
58. find factors and multiples of whole numbers. (Chapter 8)
59. determine if a number is prime or composite. (Chapter 8)
60. explore equivalent fractions. (Chapter 8)
61. find equivalent fractions. (Chapter 8)
62. write a fraction in simplest form. (Chapter 8)
63. compare and order fractions. (Chapter 8)
64. use benchmark fractions to compare and order numbers. (Chapter 8)
65. use logical reasoning to solve problems. (Chapter 8)
66. represent mixed numbers by decomposing them into fraction circles, ruler. (Chapter 8)
67. use models to add like fractions. (Chapter 9)
68. add like fractions. (Chapter 9)
69. use models to subtract like fractions. (Chapter 9)
70. subtract like fractions. (Chapter 9)
71. work backward to solve problems. (Chapter 9)
72. add mixed numbers. (Chapter 9)
73. subtract mixed numbers. (Chapter 9)
74. use models to multiply fractions. (Chapter 9)
75. explore using place-value charts and grids to model decimals. (Chapter 10)
76. model and describe tenths as part of the base-ten system. (Chapter 10)
77. model and describe hundredths as part of the base-ten system. (Chapter 10)
78. explore using grids and number lines to model the relationship between decimals and fractions. (Chapter 10)
79. identify, read, and write tenths and hundredths as decimals as fractions. (Chapter 10)
80. use place value and equivalent fractions to add two fractions with respective denominators 10 and 100. (Chapter 10)
81. compare and order decimals to hundredths by reasoning about their size. (Chapter 10)
82. find extra or missing information when solving problems. (Chapter 10)
83. estimate and measure length using customary units. (Chapter 11)
84. convert customary units of length. (Chapter 11)
85. estimate and measure customary capacities. (Chapter 11)
86. convert customary units of capacity. (Chapter 11)
87. estimate and measure customary units of weight. (Chapter 11)
88. convert customary units of weight. (Chapter 11)
89. convert units of time. (Chapter 11)
90. display measurement data in a line plot. (Chapter 11)
91. solve problems involving measurement (Chapter 11)
92. solve problems us the guess, check, and revise strategy. (Chapter 11)
93. estimate and measure lengths within the metric system. (Chapter 12)
94. estimate and measure metric capacities. (Chapter 12)
95. estimate and measure mass and learn the difference between weight and mass. (Chapter 12)
96. make an organize list to solve problems. (Chapter 12)
97. convert metric units. (Chapter 12)
98. solve problems involving measurement. (Chapter 12)
99. find the perimeter of a figure. (Chapter 13)
100. solve a simpler problem to solve problems. (Chapter 13)

101. explore the area of a figure. (Chapter 13)
102. find the area of rectangles and squares. (Chapter 13)
103. relate area to perimeter. (Chapter 13)
104. draw points, lines, line segments, and rays and identify these in two- dimensional figures. (Chapter 14)
105. draw parallel, intersecting and perpendicular lines and identify these two-dimensional figures. (Chapter 14)
106. use concepts of angle measurement to classify angles. (Chapter 14)
107. use a protractor to measure angles to the nearest degree. (Chapter 14)
108. use a protractor to draw angles of a specified measure. (Chapter 14)
109. solve addition and subtraction problems to find unknown angles on a diagram in real-world and mathematical situations. (Chapter 14)
110. classify triangles based on angle measure and describe triangles using their attributes. (Chapter 14)
111. classify quadrilateral using their attributes. (Chapter 14)
112. identify figures with line symmetry and draw lines of a symmetry. (Chapter 14)
113. solve problems by making a model. (Chapter 14)

Holt Course 1 Math (5th Grade)

Students will be able to…

1. compare and ordering whole numbers to the billions. (Chapter 1)
2. use the order of operations, including exponents. (Chapter 1)
3. recognize and extend sequences. (Chapter 1)
4. use properties to compute whole-number operations mentally. (Chapter 1)
5. represent whole numbers by using exponents. (Chapter 1)
6. write algebraic expressions involving whole numbers. (Chapter 2)
7. use addition, subtraction, multiplication, and division to solve one-step equations involving whole numbers. (Chapter 2)
8. determine whether a number is a solution to an equation. (Chapter 2)
9. read, write, compare, and order decimals. (Chapter 3)
10. writing large whole numbers in scientific notation. (Chapter 3)
11. using rounding to estimate answers to problems that involve decimals. (Chapter 3)
12. solving decimal equations. (Chapter 3)
13. writing the prime factorization of a number. (Chapter 4)
14. finding the greatest common factor (GCF) of a set of whole numbers. (Chapter 4)
15. generate equivalent forms of numbers, including whole numbers, fractions, and decimals. (Chapter 4)
16. compare and ordering fractions, decimals, and whole numbers. (Chapter 4)
17. model addition and subtraction situations involving fractions. (Chapter 5)
18. estimate sums and differences of fractions. (Chapter 5)
19. add, subtract, multiply, and divide fractions and mixed numbers with unlike denominators. (Chapter 5)
20. solve equations with fractions. (Chapter 5)
21. use mean, median, mode, and range to describe data. (Chapter 6)
22. solve problems by collecting, organizing, and displaying data. (Chapter 6)
23. draw and compare different graphical representations of the same data. (Chapter 6)
24. use ratios to describe proportional situations. (Chapter 7)
25. represent ratios and percents with concrete models, fractions, and decimals. (Chapter 7)
26. use multiplication and division to solve problems involving equivalent ratios and rates. (Chapter 7)
27. use ratios to make predictions in proportional situations. (Chapter 7)
28. measure angles. (Chapter 8)
29. use angle measurements to classify angles as acute, obtuse, or right. (Chapter 8)
30. identify relationships involving angles in triangles and quadrilaterals. (Chapter 8)

31. use congruence and similarity to solve problems. (Chapter 8)
32. transform figures on the coordinate plane and describing the transformation. (Chapter 8)
33. convert measures within the same measurement system. (Chapter 9)
34. identify relationships involving angles in triangles and quadrilaterals. (Chapter 9)
35. solve problems involving perimeter. (Chapter 9)
36. describe the relationship between the radius, diameter, and circumference of a circle. (Chapter 9)
37. solve problems involving area. (Chapter 10)
38. identify, draw, and build three-dimensional figures. (Chapter 10)
39. find the surface area of prisms, pyramids, and cylinders. (Chapter 10)
40. find the volume of prisms and cylinders. (Chapter 10)
41. use integers to represent real-life situations. (Chapter 11)
42. use tables and symbols to represent sequences. (Chapter 11)
43. use data tables to generate formulas representing relationships like perimeter. (Chapter 11)
44. graph and locating ordered pairs on four quadrants of a coordinate plane. (Chapter 11)
45. find sample spaces using lists and tree diagrams. (Chapter 12)
46. find the probabilities of simple events and their complements. (Chapter 12)
47. express probabilities as fractions, decimals, and percents. (Chapter 12)
48. find probabilities of compound events. (Chapter 12)

Holt Course 2 Math (6th Grade)

Students will be able to…

1. simplify numerical expressions involving order of operations and exponents. (Chapter 1)
2. use concrete models to solve equations. (Chapter 1)
3. find solutions to application problems involving related measurement units. (Chapter 1)
4. write large numbers in scientific notation. (Chapter 1)
5. compare and ordering integers and rational numbers. (Chapter 2)
6. convert between fractions and decimals mentally, on paper, and with a calculator. (Chapter 2)
7. use models to add, subtract, multiply, and divide integers. (Chapter 2)
8. find the prime factorization, greatest common factor, and least common multiple. (Chapter 2)
9. use models to represent multiplication and division situations involving fractions and decimals. (Chapter 3)
10. use addition, subtraction, multiplication, and division to solve problems involving fractions and decimals. (Chapter 3)
11. solve equations with rational numbers. (Chapter 3)
12. plot and identify ordered pairs of integers on a coordinate plane. (Chapter 4)
13. graph to demonstrate relationships between data sets. (Chapter 4)
14. describe the relationship between the terms in a sequence and their positions in a sequence. (Chapter 4)
15. formulate problem situations when given a simple equation. (Chapter 4)
16. use division to find unit rates and ratios in proportional relationships. (Chapter 5)
17. estimate and finding solutions to application problems involving proportional relationships. (Chapter 5)
18. generate formulas involving unit conversions. (Chapter 5)
19. use critical attributes to define similarity. (Chapter 5)
20. use ratios and proportions in scale drawings and scale models. (Chapter 5)
21. model and estimate percents. (Chapter 6)
22. write equivalent fractions, decimals, and percents, including percents less than 1 and greater than 100. (Chapter 6)
23. solve percent problems involving discounts, sales tax, tips, profit, percent of change, and simple interest. (Chapter 6)
24. compare fractions, decimals, and percents. (Chapter 6)

25. select an appropriate representation for displaying relationships among data. (Chapter 7)
26. choose among mean, median, mode, or range to describe a set of data. (Chapter 7)
27. make inferences and convincing arguments based on analysis of data. (Chapter 7)
28. classify pairs of angles as complementary or supplementary. (Chapter 8)
29. classify triangles and quadrilaterals. (Chapter 8)
30. graph translations and reflections on a coordinate plane. (Chapter 8)
31. use congruence and similarity to solve problems. (Chapter 8)
32. compare perimeter and circumference with the area of geometric figures. (Chapter 9)
33. find the area of parallelograms, triangles, trapezoids, and circles. (Chapter 9)
34. find the area of irregular figures. (Chapter 9)
35. use powers, roots, and the Pythagorean Theorem to find missing measures. (Chapter 9)
36. find the volume of prisms, cylinders, pyramids, and cones. (Chapter 10)
37. use nets to find the surface area of prisms and cylinders. (Chapter 10)
38. find the volume and surface area of similar three-dimensional figures. (Chapter 10)
39. find experimental and theoretical probabilities, including those of dependent and independent events. (Chapter 11)
40. use lists and tree diagrams to find combinations and all possible outcomes of an experiment. (Chapter 11)
41. use the Fundamental Counting Principle and factorials to find permutations. (Chapter 11)
42. solve two-step and multi-step equations and equations with variables on both sides. (Chapter 12)
43. read, write, and graph inequalities on a number line. (Chapter 12)
44. solve one-step and two-step inequalities. (Chapter 12)
45. solve equations for a variable. (Chapter 12)

Hold Course 3 Math (7th Grade)

Students will be able to…

1. use an algebraic expression to find any term in a sequence. (Chapter 1)
2. compare and order rational numbers in various forms, including integers. (Chapter 1)
3. estimate and find solutions to application problems using algebraic equations. (Chapter 1)
4. find the absolute value of a number. (Chapter 1)
5. compare and ordering positive and negative fractions and decimals. (Chapter 2)
6. use appropriate operations to solve problems involving fractions and decimals. (Chapter 2)
7. find solutions to application problems using equations. (Chapter 2)
8. solve two-step equations. (Chapter 2)
9. locate ordered pairs of rational numbers on a coordinate plane. (Chapter 3)
10. generate different representations of data using tables, graphs, and equations. (Chapter 3)
11. use an algebraic expression to determine any term in an arithmetic sequence. (Chapter 3)
12. use function notation to describe relationships among data. (Chapter 3)
13. express numbers in scientific notation, including negative exponents. (Chapter 4)
14. approximate the values of irrational numbers. (Chapter 4)
15. model the Pythagorean Theorem. (Chapter 4)
16. use the Pythagorean Theorem to solve real-life problems. (Chapter 4)
17. use unit rates to represent proportional relationships. (Chapter 5)
18. estimate and find solutions to application problems involving proportional relationships. (Chapter 5)
19. generate similar figures using dilations. (Chapter 5)
20. use proportional relationships in similar figures to find missing measurements. (Chapter 5)
21. compare and order rational numbers, including integers, percents, and positive and negative fractions and decimals. (Chapter 6)
22. estimate and solve application problems involving percents. (Chapter 6)
23. graph translations and reflections on a coordinate plane. (Chapter 7)

24. use geometric concepts and properties of geometry to solve problems in fields such as art and architecture. (Chapter 7)
25. use critical attributes to define congruency. (Chapter 7)
26. describe the effects on perimeter and area when the dimensions of a figure change proportionally. (Chapter 8)
27. draw three-dimensional figures from different perspectives. (Chapter 8)
28. describe the effect on volume when the dimensions of a solid change proportionally. (Chapter 8)
29. find the surface area and volume of various solids. (Chapter 8)
30. select an appropriate representation for displaying relationships among collected data. (Chapter 9)
31. select the appropriate measure of central tendency to describe data. (Chapter 9)
32. make predictions and analyzing trends in scatter plots. (Chapter 9)
33. recognize misuses of graphical information. (Chapter 9)
34. find the probabilities of independent and dependent events. (Chapter 10)
35. select and use different models to simulate an event. (Chapter 10)
36. use theoretical probabilities and experimental results to make predictions. (Chapter 10)
37. find solutions to application problems using algebraic equations. (Chapter 11)
38. solve multi-step equations. (Chapter 11)
39. solve inequalities by multiplying or dividing. (Chapter 11)
40. determine if an ordered pair is a solution to a system of equations. (Chapter 11)
41. solve a system of equations. (Chapter 11)
42. locate and name points on a coordinate plane using ordered pairs of rational numbers. (Chapter 12)
43. generate different representations of data using tables, graphs, and equations. (Chapter 12)
44. graph linear equations using slope and y-intercept. (Chapter 12)
45. graph inequalities involving two variables on a coordinate plane. (Chapter 12)
46. find and evaluate an algebraic expression to determine any term in an arithmetic sequence. (Chapter 13)
47. use function rules to describe patterns in sequences. (Chapter 13)
48. determine if a sequence can be arithmetic, geometric, or neither. (Chapter 13)
49. classify polynomials by the number of terms. (Chapter 14)
50. simplify polynomial expressions by combining like terms. (Chapter 14)
51. add, subtract, and multiply monomials and binomials. (Chapter 14)
52. use GCF to factor and divide polynomials. (Chapter 14)

Holt Pre-Algebra (AP 7th Grade/8th Grade)

Students will be able to…

1. write and evaluate algebraic expressions. (Chapter 1)
2. combine like terms. (Chapter 1)
3. solve one-step equations. (Chapter 1)
4. solve and graph solutions of one-step inequalities. (Chapter 1)
5. make and interpret graphs and tables. (Chapter 1)
6. make connections between linear functions or two-variable equations and graphs. (Chapter 1)
7. add, subtract, multiply, and divide integers. (Chapter 2)
8. solve one-step equations and inequalities with integers. (Chapter 2)
9. evaluate expressions with exponents. (Chapter 2)
10. apply properties of exponents. (Chapter 2)
11. evaluate expressions with zero and negative exponents. (Chapter 2)
12. express large and small numbers in scientific notation. (Chapter 2)
13. write equivalent rational numbers. (Chapter 3)
14. add, subtract, multiply, and divide decimals and rational numbers. (Chapter 3)
15. solve equations and inequalities containing rational numbers. (Chapter 3)
16. estimate and find square roots, and solve problems involving square roots. (Chapter 3)

17. determine whether a number is rational or irrational. (Chapter 3)
18. convert between bases. (Chapter 3)
19. recognize biased samples and identify sampling methods. (Chapter 4)
20. organize data in tables, stem-and-leaf plots, bar graphs, histograms, box-and whisker plots, and line graphs. (Chapter 4)
21. find appropriate measures of central tendency and variability. (Chapter 4)
22. recognize misleading graphs and statistics. (Chapter 4)
23. create and interpret scatter plots. (Chapter 4)
24. classify and construct plane figures. (Chapter 5)
25. understand and use angle relationships and line relationships. (Chapter 5)
26. classify and find unknown angle measures in polygons. (Chapter 5)
27. identify polygons in a coordinate plane. (Chapter 5)
28. use properties of congruent figures to solve problems. (Chapter 5)
29. describe and show geometric transformations, symmetry, and tessellations. (Chapter 5)
30. find perimeter or circumference and area of rectangles, parallelograms, triangles, trapezoids, and circles. (Chapter 6)
31. use the Pythagorean Theorem and its converse to solve problems. (Chapter 6)
32. draw and identify parts of three-dimensional figures. (Chapter 6)
33. find the volume and surface area of prisms, cylinders, pyramids, cones, and spheres. (Chapter 6)
34. find equivalent rates and ratios, and write and solve proportions. (Chapter 7)
35. identify similar figures and create dilations of plane figures. (Chapter 7)
36. compare and use scale drawings and scale factors, and make scale models. (Chapter 7)
37. use dimensional analysis to solve problems. (Chapter 7)
38. use trigonometric ratios. (Chapter 7)
39. write equivalent percents, decimals, and fractions. (Chapter 8)
40. estimate percents, and find the missing value in a percent problem. (Chapter 8)
41. find the percent of increase or decrease, and solve percent problems involving commission or taxes. (Chapter 8)
42. find the amount of simple or compound interest. (Chapter 8)
43. find theoretical probabilities, including dependent and independent events. (Chapter 9)
44. estimate probabilities using experiments and simulations. (Chapter 9)
45. use The Fundamental Counting Principle, permutations, and combinations to find probabilities. (Chapter 9)
46. convert between probability and odds of a specified outcome. (Chapter 9)
47. solve two-step and multistep equations. (Chapter 10)
48. solve equations with variables on both sides of the equation. (Chapter 10)
49. solve two-step inequalities and graph the solutions. (Chapter 10)
50. solve equations for a variable. (Chapter 10)
51. solve systems of equations. (Chapter 10)
52. identify and graph linear equations. (Chapter 11)
53. find the slope of a line, and identify parallel and perpendicular lines by slope. (Chapter 11)
54. write linear equations in slope-intercept form or point-slope form, and find the x- and y-intercepts.
55. use direct variation. (Chapter 11)
56. graph inequalities in two variables. (Chapter 11)
57. plot two-variable data and find a line of best fit. (Chapter 11)
58. find terms in arithmetic, geometric, and other sequences. (Chapter 12)
59. represent functions with tables, graphs, or equations. (Chapter 12)
60. identify and graph linear, exponential, and quadratic functions. (Chapter 12)
61. recognize inverse variation. (Chapter 12)
62. classify polynomials by degree and by the number of terms. (Chapter 13)
63. simplify polynomials. (Chapter 13)
64. add, subtract, multiply, and divide polynomials. (Chapter 13)

65. understand mathematical sets and set notation. (Chapter 14)
66. describe the intersection and union of sets. (Chapter 14)
67. make and use Venn diagrams. (Chapter 14)
68. differentiate between conjunctions and disjunctions, and make truth tables. (Chapter 14)
69. understand conditional statements, and reason deductively. (Chapter 14)
70. find and use Euler and Hamiltonian circuits. (Chapter 14)

Holt Algebra I (AP 8th Grade)

Students will be able to…

1. evaluate and simplify expressions. (Chapter 1)
2. work with the properties of the real number system. (Chapter 1)
3. do order of operations. (Chapter 1)
4. identify patterns formed by points plotted in the coordinate plane. (Chapter 1)
5. use inverse operations to solve equations containing variables. (Chapter 2)
6. write equations to represent situations. (Chapter 2)
7. simplify equations before solving. (Chapter 2)
8. identify properties of inequality. (Chapter 3)
9. solve inequalities by using inverse operations. (Chapter 3)
10. solve inequalities with variables on both sides. (Chapter 3)
11. solve compound inequalities. (Chapter 3)
12. recognize the relationship between variables and determine whether a relation is a function. (Chapter 4)
13. write relationships in function notation. (Chapter 4)
14. trend how lines on scatter plots can help you make predictions. (Chapter 4)
15. write and graph linear functions. (Chapter 5)
16. identify and interpret the components of linear graphs, including the x-intercept, y-intercept, and slope. (Chapter 5)
17. graph and analyze families of functions. (Chapter 5)
18. find a solution that satisfies two linear equations. (Chapter 6)
19. find solutions that satisfy two linear inequalities. (Chapter 6)
20. graph one or more linear inequalities on a coordinate plane. (Chapter 6)
21. understand the properties of exponents. (Chapter 7)
22. write powers of 10 and scientific notation. (Chapter 7)
23. add, subtract, and multiply polynomials by using properties of exponents and combining like terms. (Chapter 7)
24. understand greatest common factors. (Chapter 8)
25. factor polynomials. (Chapter 8)
26. factor special products. (Chapter 8)
27. choose a factoring method. (Chapter 8)
28. organize data in tables, graphs, and plots. (Chapter 9)
29. find the central tendency of a data set by calculating mean, median, and mode. (Chapter 9)
30. write experimental and theoretical probability as ratios, percents, and decimals. (Chapter 9)
31. write combinations, permutations, and factorials as extensions of multiplications. (Chapter 9)
32. organize data in tables, graphs, and plots. (Chapter 10)
33. find the central tendency of a data set by calculating mean, median, and mode. (Chapter 10)
34. write experimental and theoretical probability as ratios, percents, and decimals. (Chapter 10)
35. write combinations, permutations, and factorials as extensions of multiplication. (Chapter 10)
36. solve another type of sequence- geometric sequences. (Chapter 11)
37. write two more types of functions- exponential functions and square-root functions. (Chapter 11)
38. work with radical equations. (Chapter 11)
39. understand how to identify, write, and graph equations of inverse variation. (Chapter 12)
40. understand how to graph rational functions and simplify rational expressions. (Chapter 12)
41. solve rational equations. (Chapter 12)

Evidence of continuity from grade to grade

The curriculum is constructed using skill-based measurable objectives so that the knowledge, attitudes, and skills learned in each grade form building blocks for what is taught in the succeeding grades.

	Counting and Cardinality	Operations and Algebraic Thinking	Number and Operations in Base Ten	Measurement and Data	Geometry	Number and Operations – Fractions	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Statistics and Probability	Functions
K	X	X	X	X	X						
1st		X	X	X	X						
2nd		X	X	X	X						
3rd		X	X	X	X	X					
4th		X	X	X	X	X					
5th		X	X	X	X	X					
6th					X		X	X	X	X	
7th					X		X	X	X	X	
8th					X			X	X	X	X

Assessment of the academic growth and achievement of each student

Each individual teacher will assess the academic growth of their students on a regular basis. Teachers assess students in a variety of ways (e.g. worksheets, class discussions, projects, quizzes, and tests). The length and level of the assessment is dependent on the grade level being taught.

Students in grades 3-8 take the AIMS Standardized Test each spring. This test is another form of assessment the teachers can use to gauge the progress of the students.