

AFTERSCHOOL ACHIEVERS:

MATH CLUB © 2002

Grades K-8

correlated to

Alabama Course of Study
Mathematics Foundations and
Standards



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correlated to
Alabama Course of Study Mathematics
Foundations and Standards
Kindergarten

NUMBER AND OPERATIONS

Grade-Level Expectation (Students will:)	Afterschool Achievers: Math, Kindergarten
<p>Demonstrate concepts of number sense by using one-to-one correspondence, counting in sequence by ones from 1 to 20, counting backward from 10, recognizing numerals 0-9, and comparing sets of objects up to 10 by using vocabulary terms including more than, less than, most, or least.</p>	<p>Student Book: 4-5, 9-10, 12, 14, 17, 19, 22, 24, 29-30, 32, 34-35, 37, 39, 44, 49, 54-55, 59-60, 62, 64, 67, 69, 72, 74, 76, 77, 79, 80-81, 82, 84-85, 89, 94, 99, 104-105, 107, 109, 110, 112, 114, 117, 119, 122, 124, 129, 130, 132, 134-135, 137, 139, 142, 144, 149, 152, 154-155, 159, 163, 167, 169, 172, 174, 177, 179</p> <p>Teacher's Edition: 4-5, 9-10, 12, 14, 17, 19, 22, 24, 29-30, 32, 34-35, 37, 39, 44, 49, 54-55, 59-60, 62, 64, 67, 69, 72, 74, 76, 77, 79, 80-81, 82, 84-85, 89, 94, 99, 104-105, 107, 109, 110, 112, 114, 117, 119, 122, 124, 129, 130, 132, 134-135, 137, 139, 142, 144, 149, 152, 154-155, 159, 163, 167, 169, 172, 174, 177, 179, 181-196, 209</p>
<p>Demonstrate addition by using numbers totaling 5 or less and subtraction by using numbers less than or equal to 5.</p>	<p>Student Book: 62, 82, 104, 107, 109, 112, 114, 119, 124, 127, 129, 134, 137, 139, 142, 144, 149, 154, 159, 160, 162, 163, 167, 169, 174, 177, 179</p> <p>Teacher's Edition: 62, 82, 104, 107, 109, 112, 114, 119, 124, 127, 129, 134, 137, 139, 142, 144, 149, 154, 159, 160, 162, 163, 167, 169, 174, 177, 179, 196, 202-203, 204, 207, 211, 212, 214</p>
<p>Identify a penny, nickel, dime, and quarter.</p>	<p>Student Book: 25, 122, 167</p> <p>Teacher's Edition: 25, 122, 167, 203</p>

A L G E B R A

Grade-Level Expectation	Afterschool Achievers: Math, Kindergarten
Replicate patterns using concrete objects. Sorting objects by characteristics	<p>Student Book: 25, 50, 52, 57, 61, 64, 66, 69, 71, 74, 75, 86, 91, 95, 96, 97, 100-101, 102, 106-107, 111, 116, 120, 121, 125, 126, 131, 136, 141, 146, 147, 150-151, 156-157, 161, 166, 171, 175, 176</p> <p>Teacher's Edition: 25, 50, 52, 57, 61, 64, 66, 69, 71, 74, 75, 86, 91, 95, 96, 97, 100-101, 102, 106-107, 111, 116, 120, 121, 125, 126, 131, 136, 141, 146, 147, 150-151, 156-157, 161, 166, 171, 175, 176, 199-201, 206, 208, 210, 212</p>

G E O M E T R Y

Grade-Level Expectation	Afterschool Achievers: Math, Kindergarten
Create combinations of rectangles, squares, circles, and triangles using shapes or drawings.	<p>Student Book: 52, 57, 95</p> <p>Teacher's Edition: 52, 57, 95, 217</p>
Identify rectangles, squares, circles, and triangles.	<p>Student Book: 1, 2, 6, 11, 16, 20-21, 26, 27, 31, 36, 37, 41, 45, 51, 56, 61, 70-71, 79, 81, 84, 86-87, 95, 145, 167, 170, 172</p> <p>Teacher's Edition: 1, 2, 6, 11, 16, 20-21, 26, 27, 31, 36, 37, 41, 45, 51, 56, 61, 70-71, 79, 81, 84, 86-87, 95, 145, 167, 170, 172, 217</p>

M E A S U R E M E N T

Grade-Level Expectation	Afterschool Achievers: Math, Kindergarten
Use vocabulary associated with length, height, volume, and weight to compare objects.	<p>Student Book: 15, 40, 42, 47, 65, 90, 92, 115, 132, 140, 165, 180</p> <p>Teacher's Edition: 15, 40, 42, 47, 65, 90, 92, 115, 132, 140, 165, 180, 198, 205, 216</p>

DATA ANALYSIS AND PROBABILITY

Grade-Level Expectation	Afterschool Achievers: Math, Kindergarten
<p>Complete data displays such as single-loop Venn diagrams and yes/no charts using real objects, concrete representations, or pictorial representations.</p> <p>Responding to questions for the purpose of data collection</p>	<p>Student Book: 86, 91, 101, 106, 121, 131</p> <p>Teacher's Edition: 86, 91, 101, 106, 121, 131</p>

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Foundations and Standards
Grade 1

N U M B E R A N D O P E R A T I O N

Grade-Level Expectation	Afterschool Achievers: Math, Grade 1
Demonstrate concepts of number sense by counting forward and backward by ones, twos, fives, and tens up to 100; counting forward and backward from an initial number other than 1; and using multiple representations for a given number. Identifying position using the ordinal numbers 1st through 10 th	Student Book: 2, 4, 5, 7, 9, 27, 28, 67, 82, 83, 97, 105, 108, 126, 146, 168, 172, Teacher's Edition: 2, 4, 5, 7, 9, 27, 28, 67, 82, 83, 97, 105, 108, 126, 146, 168, 172, 181, 209
Recognizing that the quantity remains the same when the spatial arrangement changes	Student Book: 17, 22, 25, 32, 65, 85, 182 Teacher's Edition: 17, 22, 25, 32, 65, 85, 182, 187, 188
Determining the value of the digit in the ones place and the value of the digit in the tens place in a numeral	Student Book: 37, 112, 123, 138 Teacher's Edition: 37, 112, 123, 138, 201
Determining the value of a number given the number of tens and ones	Student Book: 37 Teacher's Edition: 37, 201
Determining the value of a number that is 10 more or 10 less than a given number	Student Book: 176 Teacher's Edition: 176
Determining the monetary value of individual coins and sets of like coins up to \$1.00	Student Book: 29, 34, 73, 75-79, 96, 102, 108, 124, 128, 161, 164, 184, 188, 190 Teacher's Edition: 29, 34, 73, 75-79, 96, 102, 108, 124, 128, 161, 164, 184, 188, 190, 195, 199, 208

Grade-Level Expectation	Afterschool Achievers: Math, Grade 1
<p>Demonstrate conceptual understanding of addition and subtraction by telling number stories; joining, separating, and comparing sets of objects; and applying signs (+ and $_$) to the actions of joining and separating sets.</p> <p>Solving simple word problems using a variety of strategies and distinguishing between relevant and irrelevant information</p>	<p>Student Book: 54</p> <p>Teacher's Edition: 54</p>
<p>Solving problems requiring the addition and subtraction of one- or two-digit numerals without regrouping</p>	<p>Student Book: 9, 10, 19, 24, 28, 29, 30, 32, 34, 39, 44, 50, 52, 54, 59, 62, 64, 68-69, 72, 74, 76-79, 84, 86, 89, 91, 92, 94, 96, 99, 102, 104, 107, 109, 110, 114, 119, 122, 129, 130, 134, 137, 139, 142, 144, 149, 150-151, 152, 154-155, 159, 162, 164, 166, 167, 169, 170, 174, 177, 179, 181, 183, 184, 190</p> <p>Teacher's Edition: 9, 10, 19, 24, 28, 29, 30, 32, 34, 39, 44, 50, 52, 54, 59, 62, 64, 68-69, 72, 74, 76-79, 84, 86, 89, 91, 92, 94, 96, 99, 102, 104, 107, 109, 110, 114, 119, 122, 129, 130, 134, 137, 139, 142, 144, 149, 150-151, 152, 154-155, 159, 162, 164, 166, 167, 169, 170, 174, 177, 179, 181, 182, 183, 184, 190, 191, 193, 195, 196, 198, 200, 203, 206, 209, 210, 212</p>
<p>Using three or more addends</p>	<p>Student Book: 30, 50, 64, 79, 84, 92, 94, 110, 130, 134, 142, 151, 152, 155, 170</p> <p>Teacher's Edition: 30, 50, 64, 79, 84, 92, 94, 110, 130, 134, 142, 151, 152, 155, 170, 193, 195, 198, 200, 203, 206</p>
<p>Demonstrate computational fluency of basic addition and subtraction facts by identifying sums to 10 and differences with minuends of 10 or less.</p>	<p>Student Book: 9, 10, 24, 28, 29, 30, 32, 34, 39, 44, 49, 50, 52, 54, 59, 62, 64, 68-69, 70-71, 74, 76-79, 84, 86, 89, 90-91, 92, 94, 96, 99, 102, 104-105, 107, 109, 110, 114, 119, 122, 129, 130, 134, 137, 139, 142, 144, 149, 150-151, 152, 154-155, 159, 162, 164, 166, 167, 169, 170, 172, 174, 177, 179, 181, 183, 184, 190</p> <p>Teacher's Edition: 9, 10, 24, 28, 29, 30, 32, 34, 39, 44, 49, 50, 52, 54, 59, 62, 64, 68-69, 70-71, 74, 76-79, 84, 86, 89, 90-91, 92, 94, 96, 99, 102, 104-105, 107, 109, 110, 114, 119, 122, 129, 130, 134, 137, 139, 142, 144, 149, 150-151, 152, 154-155, 159, 162, 164, 166, 167, 169, 170, 172, 174, 177, 179, 181, 183, 184, 190, 193, 194, 195, 198, 200, 203, 206, 209, 210, 212</p>
<p>Identify parts of a whole with two, three, or four equal parts. Dividing an object into equal parts</p>	<p>Student Book: 117, 118, 173, 182</p> <p>Teacher's Edition: 117, 118, 173, 182, 202</p>

A L G E B R A

Grade-Level Expectation	Afterschool Achievers: Math, Grade 1
Create repeating patterns. Describing characteristics of patterns	Student Book: 81, 101, 106, 166 Teacher's Edition: 81, 101, 106, 166
Extending patterns including number patterns	Student Book: 11, 16, 26, 31, 36, 41, 46, 51, 56, 61, 66, 67, 71, 81, 101, 106, 111, 116, 125, 126, 131, 141, 145, 146, 156, 171, 189, 190 Teacher's Edition: 11, 16, 26, 31, 36, 41, 46, 51, 56, 61, 66, 67, 71, 81, 101, 106, 111, 116, 125, 126, 131, 141, 145, 146, 156, 171, 189, 190, 211

G E O M E T R Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 1
Differentiate among plane shapes, including circles, squares, rectangles, and triangles. Describing similarities and differences between plane and solid shapes	Student Book: 23, 160, 180 Teacher's Edition: 23, 160, 180
Identify solid shapes in the environment, including cubes, rectangular prisms, cones, spheres, and cylinders.	Student Book: 3, 8, 12, 21, 48, 53, 58, 60, 63, 80, 87, 100, 132, 158, 185 Teacher's Edition: 3, 8, 12, 21, 48, 53, 58, 60, 63, 80, 87, 100, 132, 158, 183, 185, 197, 205

M E A S U R E M E N T

Grade-Level Expectation	Afterschool Achievers: Math, Grade 1
Compare objects according to length, weight, and capacity. Measuring the length of objects using a variety of nonstandard units	Student Book: 15, 33, 35, 38, 42, 55, 103, 115, 127, 133, 143, 188 Teacher's Edition: 15, 33, 35, 38, 42, 55, 103, 115, 127, 133, 143, 188, 189, 204
Ordering according to attributes	Student Book: 6, 43, 95, 187 Teacher's Edition: 6, 43, 95, 187, 189
Identify the hour using analog and digital clocks. Identifying the half hour using analog and digital clocks	Student Book: 57, 135, 147, 148, 175 Teacher's Edition: 57, 135, 147, 148, 175, 192, 207

Grade-Level Expectation	Afterschool Achievers: Math, Grade 1
Locate days, dates, and months on a calendar. Using vocabulary associated with a calendar	Student Book: 47, 93, 98, 106, 131, 143, 171, 178, 188 Teacher's Edition: 47, 93, 98, 106, 131, 143, 171, 178, 188, 190

D A T A A N A L Y S I S A N D P R O B A B I L I T Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 1
Organize objects or information into predetermined and labeled data displays, including pictographs, tally charts, bar graphs, or double-loop Venn diagrams. Generating simple questions for data collection	Student Book: 161, 186 Teacher's Edition: 161, 186

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Foundations and Standards
Grade 2

N U M B E R A N D O P E R A T I O N S

Grade-Level Expectation	Afterschool Achievers: Math, Grade 2
Demonstrate concepts of number sense by using multiple representations of whole numbers up to 1000, counting forward and backward by threes from a given number, identifying a number that is 100 more or 100 less than a given number, and differentiating between odd and even numbers. Identifying position using ordinal numbers to 100th	<p>Student Book: 2, 17, 18, 26, 31, 36, 81, 86, 97, 111, 121, 142, 146, 151, 154, 156, 178, 180</p> <p>Teacher’s Edition: 2, 17, 18, 26, 31, 36, 81, 86, 97, 111, 121, 142, 146, 151, 154, 156, 178, 180, 181, 182, 189, 205</p>
Determining the value of a digit in the ones, tens, hundreds, and thousands place	<p>Student Book: 40, 123</p> <p>Teacher’s Edition: 40, 123</p>
Determining the value of a number expressed in expanded notation	<p>Student Book: 181</p> <p>Teacher’s Edition: 181</p>
Apply the operations of addition and subtraction to solve problems involving two-digit numerals, using multiple strategies with and without regrouping. Demonstrating computational fluency for basic addition and subtraction facts with sums through 18 and differences with minuends through 18, using horizontal and vertical forms	<p>Student Book: 4, 5, 9, 10, 12, 14, 16, 18, 19, 22, 24, 27, 29, 33, 36, 37, 39, 42, 44, 46, 49, 51, 54, 55, 59, -65, 67, 69- 74, 76, 77, 79, 84, 85, 87, 89, 90, 94, 95-100, 102, 103, 104, 105, 106, 107, 109, 110, 114, 116, 117-120, 122, 127, 129, 132, 134, 137, 139, 140, 142-144, 149, 152, 157-159, 161-162, 164, 166, 169, 172, 176-179</p> <p>Teacher’s Edition: 4, 5, 9, 10, 12, 14, 16, 18, 19, 22, 24, 27, 29, 33, 36, 37, 39, 42, 44, 46, 49, 51, 54, 55, 59, -65, 67, 69- 74, 76, 77, 79, 84, 85, 87, 89, 90, 94, 95-100, 102, 103, 104, 105, 106, 107, 109, 110, 114, 116, 117-120, 122, 127, 129, 132, 134, 137, 139, 140, 142-144, 149, 152, 157-159, 161-162, 164, 166, 169, 172, 176-179, 182-184, 190-192, 194-198, 200-204, 207-212</p>

Grade-Level Expectation	Afterschool Achievers: Math, Grade 2
Interpreting multiplication as repeated addition and division as equal groupings	Student Book: 113, 124, 128, 136, 139, 141, 165, 174, 179 Teacher's Edition: 113, 124, 128, 136, 139, 141, 165, 174, 179
Solving multistep addition and subtraction problems originating from real-life experiences	Student Book: 10, 55, 62, 65, 85, 100, 105, 110, 120, 135, 145, 170, 178, 183, 184 Teacher's Edition: 10, 55, 62, 65, 85, 100, 105, 110, 120, 135, 145, 170, 178, 183, 184, 190, 199
Label equal parts of a whole using $\frac{1}{2}$, $\frac{1}{3}$, and $\frac{1}{4}$.	Student Book: 48, 57, 80, 105, 138 Teacher's Edition: 48, 57, 80, 105, 138, 182, 189
Determine the monetary value of sets of coins and bills up to \$2.00. Exchanging coins of equivalent value	Student Book: 32, 34, 59, 77, 100, 118-119, 140, 144, 159, 161, 167 Teacher's Edition: 32, 34, 59, 77, 100, 118-119, 140, 144, 159, 161, 167, 183, 184, 192, 210

A L G E B R A

Grade-Level Expectation	Afterschool Achievers: Math, Grade 2
Create growing patterns.	Student Book: 6, 11, 21, 41, 56, 66, 91, 101, 126, 131, 141, 171 Teacher's Edition: 6, 11, 21, 41, 56, 66, 91, 101, 126, 131, 141, 171, 189

G E O M E T R Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 2
Describe attributes of two-dimensional (plane) and three-dimensional (solid) figures using the terms <i>side, surface, edge, vertex, and angle</i> . Identifying quadrilaterals, pentagons, hexagons, or octagons	Student Book: 5, 13, 23, 52, 63, 78, 88, 98, 125, 133, 163, 173, 175 Teacher's Edition: 5, 13, 23, 52, 63, 78, 88, 98, 125, 133, 163, 173, 175, 185, 186, 188, 209
Creating designs that exhibit line symmetry	Student Book: 153 Teacher's Edition: 153

Grade-Level Expectation	Afterschool Achievers: Math, Grade 2
Recognizing the results of changing the position (transformation) of objects or shapes by sliding (translation), turning (rotation), or flipping (reflection)	Student Book: 15, 75, 130 Teacher's Edition: 15, 75, 130

M E A S U R E M E N T

Grade-Level Expectation	Afterschool Achievers: Math, Grade 2
Using appropriate tools, including rulers, yard sticks, meter sticks, or tape measures	Student Book: 7, 8, 30, 68, 70, 85, 105, 150, 168 Teacher's Edition: 7, 8, 30, 68, 70, 85, 105, 150, 168, 185, 187
Estimate weight and capacity by making comparisons with familiar objects.	Student Book: 20, 28, 43, 45, 83, 148, 160 Teacher's Edition: 20, 28, 43, 45, 83, 148, 160, 188
Tell time to the minute using analog and digital clocks.	Student Book: 47, 58, 82, 108, 167 Teacher's Edition: 47, 58, 82, 108, 167, 187, 188, 193, 209, 210

D A T A A N A L Y S I S A N D P R O B A B I L I T Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 2
Create displays, including appropriate labels, for a given set of data using pictographs, tally charts, bar graphs, or single- or double-loop Venn diagrams. Interpreting graphic displays	Student Book: 25, 155 Teacher's Edition: 25, 155



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Foundations and Standards
Grade 3

NUMBER AND OPERATIONS

Grade-Level Expectation (Students will:)	Afterschool Achievers: Math, Grade 3
Identifying the place value of any digit within a four-digit number	Student Book: 5, 103 Teacher's Edition: 5, 103
Determining the value of a number written in expanded notation to the ten-thousands place	Student Book: 48, 60, 140, 158 Teacher's Edition: 48, 60, 140, 158
Rounding whole numbers to the nearest ten and hundred and money values to the nearest dollar	Student Book: 122, 132, 162 Teacher's Edition: 122, 132, 162, 201
Solve addition and subtraction problems, including word problems, involving two- and three-digit numbers with and without regrouping. Estimating sums and differences by using compatible numbers, front-end estimation, and rounding	Student Book: 75 Teacher's Edition: 75, 181, 182, 186, 187, 203
Demonstrating computational fluency in addition and subtraction	Student Book: 2, 4, 6-8, 10-12, 14, 16, 19, 23, 24, 26, 31, 33-35, 37, 39-42, 49, 51, 53, 56, 61, 66, 68, 85, 90, 91, 94, 105, 125, 127, 137, 144, 152, 154, 162, 164, 177 Teacher's Edition: 2, 4, 6-8, 10-12, 14, 16, 19, 23, 24, 26, 31, 33-35, 37, 39-42, 49, 51, 53, 56, 61, 66, 68, 85, 90, 91, 94, 105, 125, 127, 137, 144, 152, 154, 162, 164, 177

Grade-Level Expectation (Students will:)	Afterschool Achievers: Math, Grade 3
<p>Multiply whole numbers with and without regrouping using single-digit multipliers.</p> <p>Applying concepts of multiplication through the use of manipulatives, number stories, arrays, repeated addition, or problem situations</p>	<p>Student Book: 23, 55, 62, 69, 90, 92, 99, 102, 112, 115, 154, 164, 171, 173</p> <p>Teacher's Edition: 23, 55, 62, 69, 90, 92, 99, 102, 112, 115, 154, 164, 171, 173</p>
<p>Applying basic multiplication facts through 9×9 by using manipulatives, solving problems, and writing number stories</p>	<p>Student Book: 23, 54, 55, 59, 64, 79, 84, 89, 109, 169, 177</p> <p>Teacher's Edition: 23, 54, 55, 59, 64, 79, 84, 89, 109, 169, 177</p>
<p>Recognizing properties of multiplication</p>	<p>Student Book: 101, 104, 115, 131, 136, 138, 149, 174</p> <p>Teacher's Edition: 101, 104, 115, 131, 136, 138, 149, 174, 188, 191, 195, 197, 195</p>
<p>Divide whole numbers using two-digit dividends and one-digit divisors.</p> <p>Recognizing division as repeated subtraction</p>	<p>Student Book: 119, 120, 124, 129, 130, 134, 139, 141, 146, 151, 154, 157, 159, 164, 170, 175</p> <p>Teacher's Edition: 119, 120, 124, 129, 130, 134, 139, 141, 146, 151, 154, 157, 159, 164, 170, 175, 195, 197, 203, 207-211</p>
<p>Model equivalent fractions with concrete objects or pictorial representations.</p>	<p>Student Book: 82, 83, 137, 145, 150, 157, 172, 177</p> <p>Teacher's Edition: 82, 83, 137, 145, 150, 157, 172, 177, 194, 204, 208, 209, 211</p>
<p>Use coins to make change up to \$1.00.</p> <p>Determining monetary values of sets of unlike coins and bills up to \$5.00</p>	<p>Student Book: 32, 42, 44, 73, 74, 78, 82, 95, 97, 99, 117, 147, 162, 168, 172</p> <p>Teacher's Edition: 32, 42, 44, 73, 74, 78, 82, 95, 97, 99, 117, 147, 162, 168, 172, 186, 200, 206, 209, 210</p>

A L G E B R A

Grade-Level Expectation	Afterschool Achievers: Math, Grade 3
Complete a given numeric or geometric pattern.	Student Book: 58, 67, 86, 87, 106, 116, 121, 152, 161, 176 Teacher's Edition: 58, 67, 86, 87, 106, 116, 121, 152, 161, 176, 188, 192, 210

G E O M E T R Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 3
Specify locations on a coordinate grid by using horizontal and vertical movements.	Student Book: 165 Teacher's Edition: 165

M E A S U R E M E N T

Grade-Level Expectation	Afterschool Achievers: Math, Grade 3
Measure length in metric units.	Student Book: 17, 50, 80, 110, 155 Teacher's Edition: 17, 50, 80, 110, 155
Determine elapsed time to the day with calendars and to the hour with a clock. Calculating elapsed time to the minute within the same hour	Student Book: 17, 38, 72, 88, 125 Teacher's Edition: 17, 38, 72, 88, 125, 184, 193
Applying vocabulary associated with time using <i>a.m.</i> , <i>p.m.</i> , <i>noon</i> , or <i>midnight</i>	Teacher's Edition: 193

D A T A A N A L Y S I S A N D P R O B A B I L I T Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 3
Recognize data as either categorical or numerical.	Student Book: 25 Teacher's Edition: 25



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Grade 4

NUMBER AND OPERATIONS

Grade-Level Expectation (Students will:)	Afterschool Achievers: Math, Grade 4
Writing a number in expanded notation through the hundred-thousands	Student Book: 95 Teacher's Edition: 95
Determining the place value of a digit in a whole number through the hundred-thousands and in a decimal to the hundredths	Student Book: 27, 143, 147 Teacher's Edition: 27, 143, 147, 185, 199, 206
Write money amounts in words and dollar-and-cent notation. Identifying equivalent units of money	Student Book: 31, 72, 80, 83, 87, 104, 109, 114, 127, 128, 149 Teacher's Edition: 31, 72, 80, 83, 87, 104, 109, 114, 127, 128, 149, 192, 195, 202
Writing equivalent forms of fractions	Student Book: 82, 107, 113, 120, 133, 144, 154, 155, 160 Teacher's Edition: 82, 107, 113, 120, 133, 144, 154, 155, 160, 198
Demonstrate addition and subtraction of fractions with common denominators.	Student Book: 160, 172 Teacher's Edition: 160, 172
Round whole numbers to the nearest ten, hundred, or thousand and decimals to the nearest tenth.	Student Book: 22, 62, 100, 102, 122, 147, 169, 174, 179 Teacher's Edition: 22, 62, 100, 102, 122, 147, 169, 174, 179, 184, 191

Grade-Level Expectation (Students will:)	Afterschool Achievers: Math, Grade 4
Solve problems, including word problems, that involve addition and subtraction of four-digit numbers with and without regrouping. Estimating sums and differences of whole numbers by using appropriate strategies such as rounding, front-end estimation, and compatible numbers	<p>Student Book: 1, 4, 6, 16, 21, 117</p> <p>Teacher’s Edition: 1, 4, 6, 16, 21, 117</p>
Adding and subtracting decimals and money amounts	<p>Student Book:72, 80, 87, 89, 91, 94, 99, 104, 109, 114, 127, 149</p> <p>Teacher’s Edition: 72, 80, 87, 89, 91, 94, 99, 104, 109, 114, 127, 149, 202</p>
Solve problems, including word problems, involving the basic operations of multiplication and division on whole numbers through two-digit multipliers and one-digit divisors. Estimating products and quotients of whole numbers by using appropriate strategies such as rounding, front-end estimation, and compatible numbers	<p>Student Book: 15, 50, 75, 115, 117, 119, 122, 124, 125, 129, 134, 139, 177</p> <p>Teacher’s Edition: 15, 50, 75, 115, 117, 119, 122, 124, 125, 129, 134, 139, 177, 191, 200, 201, 207</p>
Identifying information needed to determine the appropriate operation to solve a problem	<p>Student Book:2, 115, 140</p> <p>Teacher’s Edition: 2, 115, 140</p>
Demonstrating computational fluency in multiplication and division fact families through 12	<p>Student Book: 2, 13, 18, 19, 20, 24, 29, 34, 39, 40, 44, 45, 49, 54, 59, 64-69, 74, 76, 79, 81, 84, 86, 92, 93, 141, 142, 146, 151, 156, 157, 161, 166, 171, 176</p> <p>Teacher’s Edition: 2, 13, 18, 19, 20, 24, 29, 34, 39, 40, 44, 45, 49, 54, 59, 64-69, 74, 76, 79, 81, 84, 86, 92, 93, 141, 142, 146, 151, 156, 157, 161, 166, 171, 176, 181, 190, 191, 205, 210-212</p>
Recognize equivalent forms of commonly used fractions and decimals.	<p>Student Book: 82, 133, 144, 145, 150, 175</p> <p>Teacher’s Edition: 82, 133, 144, 145, 150, 175</p>

A L G E B R A

Grade-Level Expectation	Afterschool Achievers: Math, Grade 4
Write number sentences for word problems that involve multiplication or division.	Student Book: 159 Teacher's Edition: 159
Complete addition and subtraction number sentences with a missing addend or subtrahend.	Student Book: 96, 152 Teacher's Edition: 96, 152

G E O M E T R Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 4
Identify triangles, quadrilaterals, pentagons, hexagons, or octagons based on the number of sides, angles, and vertices. Demonstrating slides (translations), flips (reflections), and turns (rotations) using triangles, quadrilaterals, pentagons, hexagons, or octagons	Student Book: 3, 28, 35, 60, 63, 110, 153, 158, 163 Teacher's Edition: 3, 28, 35, 60, 63, 110, 153, 158, 163, 188
Find locations on a map or grid using ordered pairs.	Student Book: 135 Teacher's Edition: 135

M E A S U R E M E N T

Grade-Level Expectation	Afterschool Achievers: Math, Grade 4
Calculate elapsed time in hours and minutes.	Student Book: 32, 105, 123, 130 Teacher's Edition: 32, 105, 123, 130, 186
Measure length, width, weight, and capacity, using metric and customary units, and temperature in degrees Fahrenheit and degrees Celsius. Estimating perimeter and area of irregular shapes using unit squares and grid paper	Student Book: 5, 8, 10, 30, 33, 53, 55, 73, 88, 132, 137 Teacher's Edition: 5, 8, 10, 30, 33, 53, 55, 73, 88, 132, 137, 194, 203, 204

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Foundations and Standards
Grade 5

NUMBER AND OPERATION

Grade-Level Expectation	Afterschool Achievers: Math, Grade 5
<p>Demonstrate number sense by comparing, ordering, rounding, and expanding whole numbers through millions and decimals to thousandths. Relating percents to parts out of 100 by using equivalent fractions and decimals</p>	<p>Student Book: 58, 61 Teacher's Edition: 58, 61</p>
<p>Determining the value of a digit to thousandths</p>	<p>Student Book: 1, 16, 46, 67, 77, 95 Teacher's Edition: 1, 16, 46, 67, 77, 95, 190, 193, 194, 207</p>
<p>Solve problems involving basic operations on whole numbers, including addition and subtraction of seven-digit numbers, multiplication with two-digit multipliers, and division with two-digit divisors. Estimating products and quotients</p>	<p>Student Book: 53, 68, 75, 100 Teacher's Edition: 53, 68, 75, 100</p>
<p>Determining divisibility by 2, 3, 4, 5, 6, 9, and 10</p>	<p>Student Book: 15, 31 Teacher's Edition: 15, 31, 189</p>
<p>Demonstrating computational fluency with addition, subtraction, multiplication, and division of whole numbers</p>	<p>Student Book: 4, 5, 7, 9, 11, 14, 18, 19, 21, 24, 29, 34, 36, 37, 39, 40-42, 45, 48, 50-52, 55-57, 59, 62, 64, 69, 74, 76, 79-82, 93, 97, 99, 112, 114, 117, 119, 124, 132, 134, 142, 147 Teacher's Edition: 4, 5, 7, 9, 11, 14, 18, 19, 21, 24, 29, 34, 36, 37, 39, 40-42, 45, 48, 50-52, 55-57, 59, 62, 64, 69, 74, 76, 79-82, 93, 97, 99, 112, 114, 117, 119, 124, 132, 134, 142, 147, 182, 187, 200, 204, 206, 210, 211</p>

Grade-Level Expectation	Afterschool Achievers: Math, Grade 5
Solve word problems that involve decimals, fractions, or money. Solving word problems involving elapsed time	Student Book: 32, 105, 108, 130 Teacher's Edition: 32, 105, 108, 130
Determine the sum and difference of fractions with common and uncommon denominators. Changing mixed numbers to improper fractions	Student Book: 44, 49, 87, 101, 169, 173 Teacher's Edition: 44, 49, 87, 101, 169, 173
Solving problems involving addition and subtraction of fractions with common and uncommon denominators	Student Book: 8, 20, 47, 54, 65, 122, 125, 133, 155, 160 Teacher's Edition: 8, 20, 47, 54, 65, 122, 125, 133, 155, 160, 190
Using least common multiples	Student Book: 45 Teacher's Edition: 45, 188

A L G E B R A

Grade-Level Expectation	Afterschool Achievers: Math, Grade 5
Demonstrate the commutative, associative, and identity properties of addition and multiplication of whole numbers.	Student Book: 90 Teacher's Edition: 90

G E O M E T R Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 5
Identify regular polygons and congruent polygons. Identifying angles as right, obtuse, acute, or straight	Student Book: 128, 138, 140, 144, 153 Teacher's Edition: 128, 138, 140, 144, 153, 198
Classifying triangles as equilateral, isosceles, or scalene	Student Book: 35, 110, 115, 123 Teacher's Edition: 35, 110, 115, 123
Identify components of the Cartesian plane, including the x-axis, y-axis, origin, and quadrants.	Student Book: 135 Teacher's Edition: 135

MEASUREMENT

Grade-Level Expectation	Afterschool Achievers: Math, Grade 5
Calculate the perimeter of rectangles from measured dimensions.	Student Book: 83, 103, 127, 175 Teacher's Edition: 83, 103, 127, 175, 203
Convert a larger unit of measurement to a smaller unit of measurement within the same system (customary or metric).	Student Book: 73, 96, 101, 116, 158 Teacher's Edition: 73, 96, 101, 116, 158, 196

DATA ANALYSIS AND PROBABILITY

Grade-Level Expectation	Afterschool Achievers: Math, Grade 5
Analyze data collected from a survey or experiment to distinguish between what the data show and what might account for the results. Evaluating different representations of the same data to determine how well each representation shows important aspects of the data	Student Book: 156, 161, 166, 176 Teacher's Edition: 156, 161, 166, 176
Use common fractions to represent the probability of events that are neither certain nor impossible.	Student Book: 136 Teacher's Edition: 136

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Grade 6

N U M B E R A N D O P E R A T I O N

Grade-Level Expectation	Afterschool Achievers: Math, Grade 6
Demonstrate computational fluency with addition, subtraction, multiplication, and division of decimals and fractions. Comparing rational numbers written as fractions, decimals, mixed numbers, and percents	Student Book: 9, 16, 25, 26, 29, 30, 40, 54, 59-62, 65, 69, 76, 96, 104-106, 109, 110, 119, 125, 129, 182 Teacher's Edition: 9, 16, 25, 26, 29, 30, 40, 54, 59-62, 65, 69, 76, 96, 104-106, 109, 110, 119, 125, 129, 182, 189, 196, 199, 200, 204
Converting fractions and mixed numbers to decimals and percents	Student Book: 44, 151 Teacher's Edition: 44, 151, 186, 191, 193, 203, 207
Converting terminating decimals and percents to fractions and mixed numbers	Teacher's Edition: 193, 207
Using prime factorizations	Student Book: 63, 181 Teacher's Edition: 63, 181
Identifying prime and composite numbers	Student Book: 39, 66, 117, 118 Teacher's Edition: 39, 66, 117, 118, 192
Using greatest common factor (GCF) to simplify fractions	Student Book: 1, 35, 160 Teacher's Edition: 1, 35, 160
Applying the distributive property to compute with fractions and decimals	Student Book: 55, 95, 150 Teacher's Edition: 55, 95, 150

Grade-Level Expectation	Afterschool Achievers: Math, Grade 6
Using least common multiple (LCM) to add and subtract fractions with unlike denominators	Student Book: 10, 36, 46, 116, 181 Teacher's Edition: 10, 36, 46, 116, 181, 188
Solve problems involving decimals, percents, fractions, and proportions. Estimating with fractions and decimals	Student Book: 20, 45, 71, 86, 99, 111, 120-121, 131, 145 Teacher's Edition: 20, 45, 71, 86, 99, 111, 120-121, 131, 145

A L G E B R A

Grade-Level Expectation	Afterschool Achievers: Math, Grade 6
Solve problems using numeric and geometric patterns. Determining a verbal rule for a function given the input and output	Student Book: 135, 140 Teacher's Edition: 135, 140

G E O M E T R Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 6
Identify two-dimensional and three-dimensional figures based on attributes, properties, and component parts. Classifying quadrilaterals based on their attributes	Student Book: 21, 27, 28, 79, 84, 94, 101, 179 Teacher's Edition: 21, 27, 28, 79, 84, 94, 101, 179
Classifying triangles as right, obtuse, or acute	Student Book: 21 Teacher's Edition: 21
Plot coordinates on grids, graphs, and maps. Identifying the coordinates of a point on the Cartesian plane	Student Book: 15, 73, 114 Teacher's Edition: 15, 73, 114

M E A S U R E M E N T

Grade-Level Expectation	Afterschool Achievers: Math, Grade 6
Classify angles as acute, obtuse, right, or straight. Estimating angle measures using 45 degrees, 90 degrees, 180 degrees, 270 degrees, or 360 degrees as referents	Student Book: 72, 148, 179 Teacher's Edition: 72, 148, 179, 185, 197
Measuring angles	Student Book: 147 Teacher's Edition: 147
Solve problems involving perimeter and area of parallelograms and rectangles. Estimating perimeter and area	Student Book: 4, 19, 85, 90, 98, 107, 108, 115, 126, 144, 176, 180 Teacher's Edition: 4, 19, 85, 90, 98, 107, 108, 115, 126, 144, 176, 180, 212
Developing formulas to determine perimeter and area of parallelograms and rectangles	Student Book: 97 Teacher's Edition: 97
Convert units of length, weight, or capacity within the same system (customary or metric).	Student Book: 11, 24, 31, 124, 134, 136 Teacher's Edition: 11, 24, 31, 124, 134, 136, 183, 195, 202

D A T A A N A L Y S I S A N D P R O B A B I L I T Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 6
Interpret information from bar graphs, line graphs, and circle graphs.	Student Book: 103, 130, 135, 40, 175 Teacher's Edition: 103, 130, 135, 40, 175
Find the probability of a simple event. Expressing probabilities as ratios, percents, and decimals	Student Book: 122, 123, 127, 128, 132, 133 Teacher's Edition: 122, 123, 127, 128, 132, 133



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Grade 7

NUMBER AND OPERATION

Grade-Level Expectation	Afterschool Achievers: Math, Grade 7
Demonstrate computational fluency with addition, subtraction, and multiplication of integers. Developing algorithms for performing operations on integers	Student Book: 1, 2, 9, 14, 20, 31, 34, 35, 40-41, 46, 54-55, 60-61, 65, 70, 74, 80, 95-96, 104-105, 109, 111, 116, 124, 129, 139, 141, 149, 150, 156, 159-161, 175 Teacher's Edition: 1, 2, 9, 14, 20, 31, 34, 35, 40-41, 46, 54-55, 60-61, 65, 70, 74, 80, 95-96, 104-105, 109, 111, 116, 124, 129, 139, 141, 149, 150, 156, 159-161, 175, 182, 187, 188, 195, 200, 206
Use order of operations to evaluate numerical expressions. Computing absolute values	Student Book: 3, 51, 65, 156 Teacher's Edition: 3, 51, 65, 156, 190
Finding square roots of perfect squares through 225	Student Book: 39, 97, 98 Teacher's Edition: 39, 97, 98
Evaluating powers	Student Book: 1, 47-49, 136 Teacher's Edition: 1, 47-49, 136, 181, 205, 209
Applying properties of operations to compute with integers, fractions, and decimals	Student Book: 71, 149, 150, 161 Teacher's Edition: 71, 149, 150, 161, 186
Solve problems requiring the use of operations on rational numbers. Describing the method used	Student Book: 27, 28, 119 Teacher's Edition: 27, 28, 119

Grade-Level Expectation	Afterschool Achievers: Math, Grade 7
Using percents to solve problems, including problems involving discounts, taxes, commissions, and simple interest	Student Book: 10, 44, 99, 100, 106, 110, 120, 131, 151 Teacher's Edition: 10, 44, 99, 100, 106, 110, 120, 131, 151, 191, 194, 200, 204, 207

A L G E B R A

Grade-Level Expectation	Afterschool Achievers: Math, Grade 7
Express a pattern shown in a table, graph, or chart as an algebraic equation. Recognizing the relationships between numerical patterns in tables and their respective graphs in the coordinate plane	Student Book: 114, 155 Teacher's Edition: 114, 155
Translate verbal phrases into algebraic expressions and algebraic expressions into verbal phrases. Exhibiting understanding of a variable as an unknown quantity	Student Book: 41, 144-146 Teacher's Edition: 41, 144-146
Solve one- and two-step equations. Solving inequalities in one variable	Student Book: 5, 16, 41, 56, 62, 63, 64, 71 Teacher's Edition: 5, 16, 41, 56, 62, 63, 64, 71, 188, 190, 193
Graphing solution sets of inequalities on a number line	Student Book: 29, 67, 68, 72, 73 Teacher's Edition: 29, 67, 68, 72, 73

G E O M E T R Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 7
Determine the transformation(s), including translations, reflections, or rotations, used to alter the position of a polygon on the coordinate plane. Determining the type of symmetry (rotational or line) found in a reflection or rotation	Student Book: 15, 42, 43, 164, 179 Teacher's Edition: 15, 42, 43, 164, 179
Recognize geometric relationships among two-dimensional and three-dimensional objects. Drawing geometric figures when given specified components, including base and height	Student Book: 37, 38, 79, 84, 89, 101 Teacher's Edition: 37, 38, 79, 84, 89, 101

M E A S U R E M E N T

Grade-Level Expectation	Afterschool Achievers: Math, Grade 7
Solve problems involving circumference and area of circles. Estimating circumference, diameter, and area	Student Book: 4, 50 Teacher's Edition: 4, 50, 212
Determining appropriate units of measure to describe circumference, diameter, and area	Student Book: 87, 88, 130, 171 Teacher's Edition: 87, 88, 130, 171
Measuring circumference and diameter using customary and metric units	Student Book: 45, 92, 93 Teacher's Edition: 45, 92, 93
Identifying π as an irrational number	Student Book: 45, 171 Teacher's Edition: 45, 171
Find the perimeter of polygons and the area of triangles and trapezoids. Developing formulas for determining perimeter and area of triangles and trapezoids	Student Book: 7, 12, 13, 19, 77, 78, 115, 126, 130, 162, 163, 170, 171, 180 Teacher's Edition: 7, 12, 13, 19, 77, 78, 115, 126, 130, 162, 163, 170, 171, 180, 203, 211, 212
Solve problems involving ratios or rates, using proportional reasoning. Determining the unit rate	Student Book: 82, 83 Teacher's Edition: 82, 83
Converting units of length, weight, or capacity from metric to customary and from customary to metric	Student Book: 11 Teacher's Edition: 11

D A T A A N A L Y S I S A N D P R O B A B I L I T Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 7
Determine measures of central tendency (mean, median, and mode) and the range using a given set of data or graphs, including histograms, frequency tables, and stem-and-leaf plots. Creating histograms	Student Book: 75, 91, 102, 103, 107, 108, 123, 165 Teacher's Edition: 75, 91, 102, 103, 107, 108, 123, 165, 197
Determine the probability of a compound event.	Student Book: 22, 23, 85, 167, 168 Teacher's Edition: 22, 23, 85, 167, 168

Grade-Level Expectation	Afterschool Achievers: Math, Grade 7
Representing outcomes as a list, chart, picture, or tree diagram	Student Book: 30, 140 Teacher's Edition: 30, 140
Determining the number of possible outcomes by using the fundamental counting principle or other techniques	Student Book: 137, 138 Teacher's Edition: 137, 138
Modeling the probability of events through simulations with random numbers	Student Book: 32, 33, 122, 125 Teacher's Edition: 32, 33, 122, 125



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Grade 8

NUMBER AND OPERATION

Grade-Level Expectation	Afterschool Achievers: Math, Grade 8
Use various strategies and operations to solve problems involving real numbers. Using alternative representations of rational numbers	Student Book: 7, 8, 13, 35, 40, 120 Teacher's Edition: 7, 8, 13, 35, 40, 120
Applying GCF, LCM, and prime and composite numbers, including justification for the reasonableness of results, when working with rational numbers	Student Book: 36, 45, 46, 60 Teacher's Edition: 36, 45, 46, 60, 187
Demonstrating computational fluency with operations on rational numbers	Student Book: 85, 96, 99, 100, 109, 111, 116, 117, 118, 121, 129, 140, 141, 159, 160 Teacher's Edition: 85, 96, 99, 100, 109, 111, 116, 117, 118, 121, 129, 140, 141, 159, 160, 182, 187, 189, 190, 195, 201, 202, 206
Simplify expressions containing natural number exponents by applying one or more of the laws of exponents. Writing numbers using scientific notation	Student Book: 1, 49, 66, 115, 136, 161 Teacher's Edition: 1, 49, 66, 115, 136, 161, 181, 192, 205, 209
Use order of operations to evaluate and simplify algebraic expressions. Applying the substitution principle	Student Book: 5, 56, 64 Teacher's Edition: 5, 56, 64

Grade-Level Expectation	Afterschool Achievers: Math, Grade 8
Applying the properties of operations on rational numbers to evaluate and simplify algebraic expressions	Student Book: 25, 41, 69, 71, 95, 115, 124, 141, 144, 146, 149 Teacher's Edition: 25, 41, 69, 71, 95, 115, 124, 141, 144, 146, 149, 184, 188, 190, 193

A L G E B R A

Grade-Level Expectation	Afterschool Achievers: Math, Grade 8
Graph linear relations by plotting points or by using the slope and y-intercept. Determining slopes and y-intercepts of lines	Student Book: 22, 23, 29, 37, 38, 49, 97, 98, 114, 131, 164 Teacher's Edition: 22, 23, 29, 37, 38, 49, 97, 98, 114, 131, 164
Exhibiting conceptual understanding of various uses of variables	Student Book: 22, 23, 105, 154 Teacher's Edition: 22, 23, 105, 154
Solve problems involving linear functions. Identifying functions from information in tables, sets of ordered pairs, equations, graphs, and mappings	Student Book: 150 Teacher's Edition: 150, 204
Solve multistep linear equations, including equations requiring the use of the distributive property.	Student Book: 16 Teacher's Edition: 16

G E O M E T R Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 8
Applying the Pythagorean Theorem to find the missing length of a side of a right triangle	Student Book: 152, 153 Teacher's Edition: 152, 153
Compare quadrilaterals, triangles, and solids, using their properties and characteristics. Developing mathematical arguments about the relationships among types of quadrilaterals and triangles	Student Book: 84, 101 Teacher's Edition: 84, 101

M E A S U R E M E N T

Grade-Level Expectation	Afterschool Achievers: Math, Grade 8
Determine the measures of special angle pairs, including adjacent, vertical, supplementary, and complementary angles, and angles formed by parallel lines cut by a transversal.	Student Book: 170 Teacher's Edition: 170
Find the perimeter and area of regular and irregular plane figures.	Student Book: 2-4, 17, 24, 47-48, 53, 74, 76, 126, 145, 171, 180 Teacher's Edition: 2-4, 17, 24, 47-48, 53, 74, 76, 126, 145, 171, 180, 194, 212
Determine the surface area and volume of rectangular prisms, cylinders, and pyramids. Estimating surface area and volume of solid figures	Student Book: 92, 93, 130, 145, 176 Teacher's Edition: 92, 93, 130, 145, 176
Determine the lengths of missing sides and measures of angles in similar and congruent figures. Applying proportional reasoning	Student Book: 10, 21, 32, 33, 50, 91, 102, 103, 157 Teacher's Edition: 10, 21, 32, 33, 50, 91, 102, 103, 157, 185, 197, 203, 211
Finding the ratios of the perimeters and areas of similar triangles, trapezoids, and parallelograms	Student Book: 158 Teacher's Edition: 158

D A T A A N A L Y S I S A N D P R O B A B I L I T Y

Grade-Level Expectation	Afterschool Achievers: Math, Grade 8
Interpret data from populations, using given and collected data. Representing the data with the most appropriate graph, including box-and-whisker plot, circle graph, and scatterplot	Student Book: 70, 75, 77-78, 110, 135, 172-173 Teacher's Edition: 70, 75, 77-78, 110, 135, 172-173
Comparing data sets involving two populations	Student Book: 80 Teacher's Edition: 80
Determine the theoretical probability of an event. Calculating the probability of complementary events and mutually exclusive events	Student Book: 125, 127, 128, 142, 143 Teacher's Edition: 125, 127, 128, 142, 143



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