

Scope & Sequence of Lessons & Exercises

by lesson number

Lesson Concept

Exercise Concept

POSITION & DIRECTION

- 1 Recognizing and using position words: top, bottom, over, under, above and below
- 3 Recognizing and using position words: left, right, between and middle
- 4 Recognizing and using left and right hands; moving from left to right
- 6 Recognizing and using position words: inside and outside, on and off
- 7 Recognizing and using position (in time) words: before and after
- 9 Recognizing left and right and moving in those directions when asked
- 27 Recognizing the ordinals first through third
- 29 Using the position words before and after, in front and behind in stories
- 59 Recognizing and using ordinals first through fifth
- 74 Recognizing and using position words: first, next and last
- 75 Recognizing and using ordinals sixth through tenth
- 87 Recognizing and using position (in time) words: yesterday, today and tomorrow
- 128 Recognizing and using position words inside and outside with geometric figures
- 139 Evaluating routes on a map; giving directions using left, right, etc.

- E09 Navigating a maze by following geometric shapes
- E10 Finding positions using ordinals and number lines
- E17 Navigating a maze; naming shapes used to create the maze

PLACE VALUE AND COUNTING

Learning numbers

- 8 Learning the concept of 1 and 2
- 10 Learning the concept of 3
- 15 Learning the concept of 4
- 20 Learning the concept of 5
- 25 Learning the concept of 0
- 30 Learning the concept of 6
- 40 Learning the concept of 7
- 45 Learning the concept of 8
- 50 Learning the concept of 9
- 60 Learning the concept of 10
- 65 Learning the concept of 11
- 80 Learning the concept of 12; the word: dozen
- 90 Learning the concept of 13
- 95 Learning the concept of 14
- 100 Learning the concept of 15
- 105 Learning the concept of 16
- 110 Learning the concept of 17 and 18
- 120 Learning the concept of 19 and 20
- 125 Learning the concepts of 20 through 30; learning rows and columns
- 130 Learning the concepts of 31 through 50; learning rows and columns
- 135 Learning the concepts of 51 through 100

- E01 Recognizing the shape of numerals 0, 1, 2, 3
- E02 Recognizing the shape of numerals 0, 1, 2, 3, 4, 5
- E03 Counting and showing numbers 0-5 with fingers
- E04 Coloring by numbers
- E06 Finding a path counting up from 0 to 6
- E11 Finding a path counting up and down by 2s
- E12 Finding a path counting up and down 0-20 by 2s; 0-25 by 5s
- E13 Distinguishing letters from numbers
- E22 Counting to 100 by 2s, 5s, and 10s

Kindergarten

Scope & Sequence of Lessons & Exercises

by lesson number

Lesson Concept

Exercise Concept

Counting objects

- 17 Counting objects in a set
- 21 Identifying a set with the most items
- 22 Sorting and counting objects
- 26 Identifying a set with the fewest items
- 28 Matching numerals 0-5 with pictures of 0-5 objects
- 31 Matching a set of objects to a set with an equal number of objects
- 32 Circling the same number of objects as members in a given set
- 33 Drawing the same number of objects as members in a given set
- 36 Identifying a set with the most items
- 37 Identifying a set with the fewest items
- 42 Adding one to a set of objects to make it equal with another set
- 44 Matching numerals 0-7 with pictures of 0-7 objects
- 47 Making a set with one more than a given number
- 49 Adding one to a set of objects to make it equal with another set
- 52 Selecting a set with the most or fewest items
- 55 Selecting a set with the most or fewest items
- 55 Drawing an object for each item of a set
- 56 Creating a set with one more item than a given set
- 58 Circling a group of items equal to a given number
- 71 Calculating the total when 1 is added to a given set
- 96 Selecting a set that has one less than a given set
- 118 Selecting the number with the greatest value in a given set
- 122 Matching a number 0-9 with a set of items

- E13 Estimating and comparing objects without counting or measuring

Recognizing number words

- 27 Recognizing the ordinals first through third
- 59 Recognizing the ordinals first through fifth
- 75 Recognizing the ordinals sixth through tenth
- 89 Recognizing number words: zero to ten
- 98 Recognizing number words: zero to ten
- 108 Recognizing number words: zero to ten
- 115 Recognizing number words: eleven, twelve and thirteen
- 124 Recognizing number words: fourteen through nineteen
- 124 Recognizing number words: twenty, thirty, forty and fifty
- 144 Recognizing number words: fifty, sixty, seventy, eighty, ninety and one hundred

Kindergarten

Scope & Sequence of Lessons & Exercises

by lesson number

Lesson Concept

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Series and Patterns

- | | | | |
|-----|--|-----|--|
| 12 | Copying a pattern of shapes | E08 | Locating and coloring geometric shapes to make a pattern |
| 13 | Copying a pattern of hand motions using cards with 2 colors and letters | E09 | Following geometric shapes through a maze |
| 16 | Circling 1 to 4 items in a set | E19 | Coloring shapes so no adjacent edges share a color |
| 18 | Repeating a pattern of postures or body movements | | |
| 22 | Circling an object that does not belong | | |
| 38 | Copying a pattern of hand motions using cards with 3 colors and letters | | |
| 41 | Copying patterns of cards with 3 colors and patterns | | |
| 51 | Selecting an item that best fits with a given set | | |
| 66 | Identifying objects with common characteristics | | |
| 68 | Circling an item that shares the characteristics of a given set | | |
| 69 | Completing a sequence of numerals to 12 when one is missing | | |
| 72 | Copying a pattern of pictures | | |
| 76 | Identifying characteristics shared by several items | | |
| 91 | Completing a sequence to 12 when one or two are missing | | |
| 101 | Completing a sequence to 12 when one or two are missing at the beginning | | |
| 112 | Completing a sequence to 18 when one or two are missing at the beginning | | |
| 127 | Completing a sequence to 20 when two are missing | | |
| 134 | Completing a pattern of geometric shapes | | |

Putting things in order; sorting

- | | | | |
|----|---|-----|--|
| 5 | Identifying which of 3 items is different from others in the set | E21 | Comparing and sorting objects by length |
| 14 | Identifying which of 3 items is unique | E23 | Comparing objects and descriptions of different temperatures |
| 17 | Sorting shapes based on similar characteristics | | |
| 19 | Comparing pairs of lines of different lengths | | |
| 22 | Sorting objects and circling an object that does not belong in a set | | |
| 23 | Circling an item that is different | | |
| 24 | Identifying items that are taller, shorter or the same height | | |
| 31 | Matching a set of objects to a set with an equal number of objects | | |
| 32 | Circling the same number of objects as members of a given set | | |
| 34 | Comparing objects that are lighter, heavier or the same weight | | |
| 39 | Arranging strips of paper by length | | |
| 41 | Copying patterns of cards with 3 colors and letters | | |
| 51 | Selecting an item that best fits with a given set | | |
| 53 | Learning the days of the week in order | | |
| 57 | Comparing the time needed to do activities: less time, more time, the same time | | |
| 58 | Circling a group of items equal to a given number | | |
| 66 | Identifying objects with common characteristics | | |
| 68 | Circling the item that shares the characteristics of a given set | | |
| 74 | Putting things in order using first, next and last | | |
| 87 | Putting things in order using yesterday, today and tomorrow | | |

Kindergarten

Scope & Sequence of Lessons & Exercises

by lesson number

Lesson Concept

- 126 Sorting objects by weight
- 129 Sorting objects by temperature
- 152 Comparing and identifying numbers as smaller, larger or the same
- 153 Arranging 4 items to show possible combinations

Exercise Concept

Number lines

- | | | | |
|-----|--|-----|--|
| 91 | Completing a sequence to 12 when one or two are missing, using a number line | E07 | Creating and interacting with number lines |
| 152 | Comparing numbers to identify smaller, larger or the same, using a number line | E10 | Ordinals, position and number lines |
| | | E14 | Finding a given number on a number line |
| | | E20 | Finding pairs of numbers on a number line |

ADDITION OF WHOLE NUMBERS

Addition facts

- 62 Combining two groups to a total of 5
- 64 Creating story problems that add to 5
- 70 Creating story problems that add to 5
- 71 Calculating the total when 1 is added to a given set
- 81 Creating story problems that add to 5
- 85 Combining two groups to a total of 6
- 86 Creating story problems that add to 6
- 99 Creating story problems that add to 7; commutative property of addition
- 103 Creating story problems that add to 8
- 109 Adding vertically to 5; learning words: horizontal and vertical
- 113 Creating story problems that add to 9
- 116 Adding vertically to 5
- 123 Adding vertically to 8
- 131 Adding vertically to 9
- 136 Adding vertically to 10
- 142 Adding vertically to 12
- 143 Adding horizontally to 12
- 146 Adding to 15
- 147 Selecting addition or subtraction to solve a problem
- 148 Selecting addition or subtraction to solve a problem; learning odd and even
- 149 Working with addition and subtraction fact families
- 150 Working with addition and subtraction fact families

Kindergarten

Scope & Sequence of Lessons & Exercises

by lesson number

Lesson Concept

Exercise Concept

SUBTRACTION OF WHOLE NUMBERS

Subtraction facts

- 93 Determining the number of items remaining when one or two are removed
- 97 Creating story problems that subtract from 5
- 106 Creating story problems that subtract from 6
- 121 Creating story problems that subtract from 7
- 133 Subtracting vertically from 6
- 138 Subtracting vertically from 9
- 145 Subtracting vertically from 10
- 147 Selecting addition or subtraction to solve a problem
- 148 Selecting addition or subtraction to solve a problem; learning odd and even
- 149 Working with addition and subtraction fact families
- 150 Working with addition and subtraction fact families

FRACTIONS

- 155 Creating bar graphs to analyze data; using the terms range and mode; fractions
- E18 Dividing items into multiple groups using a circle graph; fractions

MONEY

- 67 Recognizing pennies and using the cents symbol
- 77 Recognizing and adding nickels
- 102 Using pennies or nickels to pay for items up to 13 cents
- 107 Using pennies or nickels to pay for items up to 15 cents
- 117 Recognizing and adding dimes; using the dollar symbol and decimal
- 132 Using pennies or nickels to pay for items up to 19 cents
- 137 Recognizing quarters and 50 state designs; comparing coins

TIME - CLOCK

- 2 Recognizing and using time words: morning, afternoon, evening and night
- 7 Recognizing and using time words: before and after
- 57 Recognizing and using time words: more time, less time and the same time
- 57 Comparing the time needed to do activities
- 78 Telling time on the hour using an analog clock
- 82 Telling time with a clock
- 83 Telling time on the hour using a digital clock

Kindergarten

Scope & Sequence of Lessons & Exercises

by lesson number

Lesson Concept

Exercise Concept

TIME - CALENDAR

- 2 Using time words: days of the week
- 53 Learning the days of the week in order
- 73 Keeping track of time: clocks (less than a day) and calendars (more than a day)
- 82 Telling time with a calendar
- 87 Writing the days of the week in order
- 87 Using time words: yesterday, today and tomorrow
- 88 Naming the months of the year and the seasons in order

ODD AND EVEN NUMBERS

- 148 Selecting addition or subtraction to solve a problem; odd and even

MEASUREMENTS

- | | |
|---|---|
| 11 Recognizing measurement words: taller, shorter and same height | E21 Comparing and sorting objects by length |
| 19 Comparing pairs of lines of different lengths | E24 Describing conditions using qualitative or quantitative |
| 24 Recognizing taller, shorter and same height; identifying objects correctly | |
| 34 Recognizing measurement words: heavier, lighter and same weight | |
| 39 Arranging strips of paper by length | |
| 54 Comparing measures of volume with non-standard units | |
| 57 Measuring time with non-standard units | |
| 84 Comparing containers of different capacities (volumes) | |
| 94 Measuring weight with non-standard units | |
| 114 Measuring length with non-standard units | |
| 119 Measuring distance with non-standard units | |
| 126 Comparing weights using non-standard units; sorting objects by weight | |
| 129 Measuring temperature on Celsius and Fahrenheit scales | |

GEOMETRY

Shapes and figures

- | | |
|---|--|
| 43 Identifying circles, squares, rectangles and ovals by sight and feel | E05 Numbering shapes - smallest to largest; numbering corners |
| 48 Identifying circle, square, triangle, rectangle, diamond (rhombus), oval (ellipse) | E08 Locating and coloring geometric shapes to make a pattern |
| 61 Recognizing attributes of shapes: sides, corners, inside, outside and curves | E15 Identifying attributes of shapes using: side, corner, edge and curve |
| 92 Drawing lines of symmetry | E16 Identifying geometric shapes of common objects |
| 104 Creating circle graphs | E17 Navigating a maze and naming shapes used to create the maze |
| 128 Using position words: inside and outside, with geometric figures | E19 Coloring shapes so no adjacent edges share a color |
| 134 Completing a pattern of geometric shapes | |
| 141 Moving a figure using flips, slides and turns | |

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by lesson number

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Exercise Concept

PROBABILITY AND LOGIC

- 46 Selecting a choice out of 3 options, given 2 clues
- 63 Selecting a choice out of 3 options, given 2 clues
- 79 Identifying a choice by asking yes or no questions
- 139 Selecting the best route from one place to another
- 140 Charting the results of rolling a cube
- 147 Selecting addition or subtraction to solve a problem
- 151 Finding a number using the process of trial and error
- 152 Comparing and identifying numbers as smaller, larger or the same

GRAPHS

- 35 Creating picture graphs
- 104 Arranging similar items on a circle graph and discussing probability
- 111 Creating picture graphs and circle graphs
- 140 Charting the results of rolling a cube 20 times
- 153 Arranging 4 items to show possible combinations
- 154 Charting the results of flipping a coin 12 times
- E18 Dividing items into multiple groups using a circle graph

Kindergarten

Lesson & Exercise Concepts

by page number

L# Pg Lesson & Exercise Concepts

1	2	Recognizing and using position words: top, bottom, over, under, above and below
2	4	Recognizing and using time words: morning, afternoon, evening and night; days of the week
3	6	Recognizing and using position words: left, right, between and middle
4	8	Recognizing and using left and right hands; moving from left to right
5	10	Identifying which of 3 items is different from others in the set
E01	12	Recognizing the shape of numerals 0, 1, 2, 3
6	14	Recognizing and using position words: inside and outside, on and off
7	16	Recognizing and using position (in time) words: before and after
8	18	Learning the concept of 1 and 2
9	20	Recognizing left and right and moving in those directions when asked
10	22	Learning the concept of 3
E02	24	Recognizing the shape of numerals 0, 1, 2, 3, 4, 5
11	26	Recognizing measurement words: taller, shorter and same height
12	28	Copying a pattern of shapes
13	30	Copying a pattern of hand motions using cards with 2 colors and letters
14	32	Identifying which of 3 items is unique
15	34	Learning the concept of 4
E03	36	Counting and showing numbers 0-5 with fingers
16	38	Circling 1 to 4 items in a set
17	40	Counting objects in a set; sorting shapes based on similar characteristics
18	42	Repeating a pattern of postures or body movements
19	44	Comparing pairs of lines of different lengths
20	46	Learning the concept of 5
E04	48	Coloring by numbers
21	50	Identifying a set with the most items
22	52	Sorting and counting objects; circling an object that does not belong in a set
23	54	Circling an item that is different
24	56	Recognizing items that are taller, shorter and same height; identifying objects correctly
25	58	Learning the concept of 0
E05	60	Numbering shapes from smallest to largest; numbering corners on a shape
26	62	Identifying a set with the fewest items
27	64	Recognizing the ordinals first through third
28	66	Matching numerals 0-5 with pictures of 0-5 objects
29	68	Using the position words before and after, in front and behind in stories
30	70	Learning the concept of 6
T1	72	Test 1
31	74	Matching a set of objects to a set with an equal number of objects
32	76	Circling the same number of objects as members in a given set
33	78	Drawing the same number of objects as members in a given set
34	80	Comparing objects that are lighter, heavier or the same weight; recognizing measurement words: heavier, lighter and same weight
35	82	Creating picture graphs
E06	84	Finding a path counting up from 0 to 6
36	86	Identifying a set with the most items
37	88	Identifying a set with the fewest items
38	90	Copying a pattern of hand motions using cards with 3 colors and letters
39	92	Arranging strips of paper by length
40	94	Learning the concept of 7
E07	96	Creating and interacting with number lines

Kindergarten

Lesson & Exercise Concepts

by page number

L#	Pg	Lesson & Exercise Concepts
41	98	Copying patterns of cards with 3 colors and letters
42	100	Adding one to a set of objects to make it equal with another set
43	102	Identifying circles, squares, rectangles and ovals by sight and feel
44	104	Matching numerals 0-7 with pictures of 0-7 objects
45	106	Learning the concept of 8
E08	108	Locating and coloring geometric shapes to make a pattern
46	110	Selecting a choice out of 3 options, given 2 clues
47	112	Making a set with one more than a given number
48	114	Identifying circles, squares, triangles, rectangles, diamonds (rhombus) and ovals (ellipse)
49	116	Adding one to a set of objects to make it equal with another set
50	118	Learning the concept of 9
E09	120	Navigating a maze by following geometric shapes
51	122	Selecting an item that best fits with a given set
52	124	Selecting a set with the most or fewest items
53	126	Learning the days of the week in order
54	128	Comparing measures of volume with non-standard units
55	130	Selecting a set with the most or fewest items; drawing an object for each item of a set
T2	132	Test 2
56	134	Creating a set with one more item than a given set
57	136	Comparing the time needed to do activities: less time, more time, the same time; recognizing and using time words
58	138	Circling a group of items equal to a given number
59	140	Recognizing and using ordinals first through fifth
60	142	Learning the concept of 10
E10	144	Finding positions using ordinals and number lines
61	146	Recognizing attributes of shapes: sides, corners, inside, outside and curves
62	148	Combining two groups to a total of 5
63	150	Selecting a choice out of 3 options, given 2 clues
64	152	Creating story problems that add to 5
65	154	Learning the concept of 11
E11	156	Finding a path counting up and down by 2s
66	158	Identifying objects with common characteristics
67	160	Recognizing pennies and using the cents symbol
68	162	Circling an item that shares the characteristics of a given set
69	164	Completing a sequence of numerals to 12 when one is missing
70	166	Creating story problems that add to 5
E12	168	Finding a path counting up and down 0-20 by 2s and 0-25 by 5s
71	170	Calculating the total when 1 is added to a given set
72	172	Copying a pattern of pictures
73	174	Keeping track of time: clocks (less than a day) and calendars (more than a day)
74	176	Putting things in order and using position words: first, next and last
75	178	Recognizing and using ordinals sixth through tenth
E13	180	Estimating and comparing objects without counting or measuring; distinguishing letters from numbers
76	182	Identifying characteristics shared by several items
77	184	Recognizing and adding nickels
78	186	Telling time on the hour using an analog clock
79	188	Identifying a choice by asking yes or no questions
80	190	Learning the concept of 12; the word: dozen
T3	192	Test 3

Kindergarten

Lesson & Exercise Concepts

by page number

L#	Pg	Lesson & Exercise Concepts
81	194	Creating story problems that add to 5
82	196	Telling time with a clock and telling time with a calendar
83	198	Telling time on the hour using a digital clock
84	200	Comparing containers of different capacities (volumes)
85	202	Combining two groups to a total of 6
E14	204	Finding a given number on a number line
86	206	Creating story problems that add to 6
87	208	Putting things in order and using time words yesterday, today and tomorrow; days of the week in order
88	210	Naming the months of the year and the seasons in order
89	212	Recognizing number words: zero to ten
90	214	Learning the concept of 13
E15	216	Identifying attributes of shapes using: side, corner, edge and curve
91	218	Completing a sequence to 12 when one or two are missing, using a number line
92	220	Drawing lines of symmetry
93	222	Determining the number of items remaining when one or two are removed
94	224	Measuring weight with non-standard units
95	226	Learning the concept of 14
E16	228	Identifying geometric shapes of common objects
96	230	Selecting a set that has one less than a given set
97	232	Creating story problems that subtract from 5
98	234	Recognizing number words: zero to ten
99	236	Creating story problems that add to 7; commutative property of addition
100	238	Learning the concept of 15
E17	240	Navigating a maze and naming the geometric shapes used to create the maze
101	242	Completing a sequence to 12 when one or two are missing at the beginning
102	244	Using pennies or nickels to pay for items up to 13 cents
103	246	Creating story problems that add to 8
104	248	Creating circle graphs; arranging similar items on a circle graph and discussing probability
105	250	Learning the concept of 16
T4	252	Test 4
106	254	Creating story problems that subtract from 6
107	256	Using pennies or nickels to pay for items up to 15 cents
108	258	Recognizing number words: zero to ten
109	260	Adding vertically to 5; learning words: horizontal and vertical
110	262	Learning the concept of 17 and 18
E18	264	Dividing items into multiple groups using a circle graph; fractions
111	266	Creating picture graphs and circle graphs
112	268	Completing a sequence to 18 when one or two are missing at the beginning
113	270	Creating story problems that add to 9
114	272	Measuring length with non-standard units
115	274	Recognizing number words: eleven, twelve and thirteen
E19	276	Coloring shapes so no adjacent edges share a color
116	278	Adding vertically to 5
117	280	Recognizing and adding dimes; using the dollar symbol and decimal
118	282	Selecting the number with the greatest value in a given set
119	284	Measuring distance with non-standard units
120	286	Learning the concept of 19 and 20
E20	288	Finding pairs of numbers on a number line

Kindergarten

Lesson & Exercise Concepts

by page number

L#	Pg #	Lesson & Exercise Concepts
121	290	Creating story problems that subtract from 7
122	292	Matching a number 0-9 with a set of items
123	294	Adding vertically to 8
124	296	Recognizing number words: fourteen through nineteen; twenty, thirty, forty and fifty
125	298	Learning the concepts of 20 through 30; learning rows and columns
E21	300	Comparing and sorting objects by length
126	302	Comparing weights using non-standard units; sorting objects by weight
127	304	Completing a sequence to 20 when two are missing
128	306	Recognizing position of an item and using position words inside and outside with geometric figures
129	308	Sorting objects by temperature; measuring temperature on Celsius and Fahrenheit scales
130	310	Learning the concepts of 31 through 50; learning rows and columns
T5	312	Test 5
131	314	Adding vertically to 9
132	316	Using pennies or nickels to pay for items up to 19 cents
133	318	Subtracting vertically from 6
134	320	Completing a pattern of geometric shapes
135	322	Learning the concepts of 51 through 100
E22	324	Counting to 100 by 2s, 5s, and 10s
136	326	Adding vertically to 10
137	328	Recognizing quarters and 50 state designs; comparing coins
138	330	Subtracting vertically from 9
139	332	Evaluating routes on a map; selecting “the best” route, giving directions to get somewhere using left, right, etc.
140	334	Charting the results of rolling a cube 20 times
E23	336	Comparing objects and descriptions of different temperatures
141	338	Moving a figure using flips, slides and turns
142	340	Adding vertically to 12
143	342	Adding horizontally to 12
144	344	Recognizing number words: fifty, sixty, seventy, eighty, ninety and one hundred
145	346	Subtracting vertically from 10
E24	348	Describing conditions using qualitative or quantitative
146	350	Adding to 15
147	352	Selecting addition or subtraction to solve a problem
148	354	Selecting addition or subtraction to solve a problem; learning odd and even
149	356	Working with addition and subtraction fact families
150	358	Working with addition and subtraction fact families
YE1	360	Year-End Test 1
YE2	362	Year End Test 2
151	364	Finding a number using the process of trial and error
152	366	Comparing two numbers to identify smaller, larger or the same, using a number line
153	368	Arranging 4 items to show possible combinations
154	370	Charting the results of flipping a coin 12 times
155	372	Creating bar graphs to analyze data; using the terms range and mode; fractions

Kindergarten