

Mathematics for Elementary School

Grade 1, One-Year Instructional Plan

1 st Trimester			
Month	Unit	# of periods	Instructional contents
April (8)	0. Welcome to the School in the Forest p. 1-6	4	<input type="radio"/> To see a set of objects according to conditions and point of view <input type="radio"/> To find one-to-one correspondence between the elements of two sets
	1. Numbers Up to 10 p. 7-18	10	<input type="radio"/> How to say and count numbers from "one" to "five" <input type="radio"/> How to read and write numbers from 1 to 5. Structures of those numbers. <input type="radio"/> How to say and count numbers from "six" to "ten" <input type="radio"/> How to read and write numbers from 6 to 10. Structures of those numbers. <input type="radio"/> Relative size of numbers from 1 to 10. Order of numbers <input type="radio"/> Meaning of 0 as the empty set
May (12)	2. Ordinal Numbers p. 19-20	2	<input type="radio"/> Represent order and position using numbers
	3. Two Numbers Together p. 21-26	6	<input type="radio"/> Composition and decomposition of numbers from 5 to 10
June (16)	4. Addition (1) p. 27-34	6	<input type="radio"/> Meaning of addition (Putting together and adding on) [math sentence, +, =, addition] <input type="radio"/> Addition calculation where the sum of two numbers is less than 10 <input type="radio"/> Practicing addition calculation using addition cards (be able to see a number as a sum of two numbers) <input type="radio"/> Addition calculation involving 0
	5. Subtraction (1) p.35-43	8	<input type="radio"/> Meaning of subtraction (take away and difference) [-, subtraction] <input type="radio"/> Subtraction calculation where the minuend is less than 10. <input type="radio"/> Practicing subtraction calculation using subtraction cards (Able to see a number as a difference of two numbers) <input type="radio"/> Subtraction calculation involving 0
July (8)	6. Numbers Up to 20 p.44-50	6	<input type="radio"/> How to say and count numbers up to 20 <input type="radio"/> How to read and write numbers up to 20 <input type="radio"/> Structures, order, and relative size of numbers up to 20 <input type="radio"/> Addition and subtraction based on composition of numbers <input type="radio"/> Simple 2-digit and 1-digit addition and subtraction
	7. Time (hour, hour and a half) p.51	1	<input type="radio"/> Tick marks on the clock and function of long and short hands <input type="radio"/> Telling time to the hour and hour and a half
	★ Review 1 p.52	(1)	<input type="radio"/> Retaining and reinforcing the contents the students learned in the first trimester
Standard # of periods in 1st trimester: 44 periods		43 periods	(Adjustable periods (★): 1 period) (Optional periods: 0 periods) Total of 1 period (1 + 0)

2 nd Trimester			
Month	Unit	# of periods	Instructional contents
Sept. (16)	8. Playing with Shapes p. 53-56	4	<ul style="list-style-type: none"> <input type="radio"/> Basic concept of rectangular prism, cube, cylinder, and sphere <input type="radio"/> Looking at functional characteristics of shapes <input type="radio"/> Basic concept of plane figures such as quadrilaterals, triangles, and circles
	9. Which One is Longer? p. 57-58	4	<ul style="list-style-type: none"> <input type="radio"/> Basic concept of length <input checked="" type="radio"/> Measuring length (Direct and indirect comparison) <input type="radio"/> Expressing length using numbers (Basic understanding of arbitrary units)
	10. Calculation of Three Numbers p. 59-60	3	<ul style="list-style-type: none"> <input type="radio"/> Simple addition and subtraction calculation of three numbers
	☆ Review 2 p. 61	(1)	<ul style="list-style-type: none"> <input type="radio"/> Checking understanding of previously learned contents
Oct. (16)	11. Addition (2) p. 62-68	13	<ul style="list-style-type: none"> <input checked="" type="radio"/> Addition of 1-digit numbers involving regrouping <input type="radio"/> Story problems involving the addition calculation above <input type="radio"/> Practicing the addition calculation using calculation cards and games
	12. Which One Is More? p. 69-70	4	<ul style="list-style-type: none"> <input type="radio"/> Basic concept of capacity (liquid quantity) <input type="radio"/> Comparing liquid quantities by expressing the quantity in numbers
Nov. (16)	☆ Review 3 p. 71	(1)	<ul style="list-style-type: none"> <input type="radio"/> Checking understanding of previously learned contents
	13. Subtraction (2) p. 72-79	15	<ul style="list-style-type: none"> <input checked="" type="radio"/> Subtraction involving regrouping (2-digit number (11 to 18) minus 1-digit number) <input type="radio"/> Story problems involving the subtraction calculation above <input type="radio"/> Practicing subtraction calculation using calculation cards and games
Dec. (8)	☆ Which One Has More Space? p. 80	(2)	<ul style="list-style-type: none"> <input type="radio"/> The first step towards the understanding of area concept
	☆ I wonder What Kind of calculation Do We Need to Use? p. 81-82	(2)	<ul style="list-style-type: none"> <input type="radio"/> Story problems requiring students to make decisions about what calculation operation they need to use (addition or subtraction)
	☆ Playground p. 83-84	(2)	<ul style="list-style-type: none"> <input type="radio"/> Application of previously learned contents across different domains <input type="radio"/> Mathematical examination of familiar phenomena (playing at the playground)
	☆ Review 4 p. 85	(1)	<ul style="list-style-type: none"> <input type="radio"/> Retaining and reinforcing the contents the students learned in the second trimester
Standard # of periods in 2nd trimester: 56 periods		43 periods (Adjustable periods (☆): 9 periods) (Optional periods: 4 periods)	Total of 13 periods (9 + 4)

3 rd Trimester			
Month	Unit	# of periods	Instructional contents
Jan. (12)	14. Large Number p. 86-94	14	<input checked="" type="radio"/> The merit of making groups of 10 for counting [tens place, ones place] <input type="radio"/> How to say and count numbers up to 100 <input type="radio"/> How to read and write numbers up to 100 <input type="radio"/> Principles and structures of place value of 2-digit numbers <input type="radio"/> Order and relative size of numbers up to 100 <input type="radio"/> Simple 3-digit numbers <input type="radio"/> Calculation based on 10 as a unit and the structure of numbers
Feb. (16)	15. Time (hour and minute) p. 95-96	2	<input type="radio"/> Telling time to the hour and minute
	16. Addition and Subtraction p. 97-100	4	<input type="radio"/> Meaning of addition and subtraction (finding more and less) <input type="radio"/> Addition and subtraction of ordinal numbers <input type="radio"/> Understanding that different kinds of quantities can be added and subtracted.
	17. Making Shapes p. 101-103	4	<input type="radio"/> Using color tiles and sticks to compose shapes of objects and basic shapes <input type="radio"/> The first step towards the understanding of basic plane figures <input type="radio"/> Paying attention to the area of basic plane figures composed of colored tiles.
March (8)	☆ Making Buildings p. 104	(2)	<input type="radio"/> The first step towards the understanding of basic structure of multiplication and divisions ideas
	☆ 1st Grade Review p. 105-106	(2)	<input type="radio"/> Review of all the contents learned in the first grade
Standard # of periods in 3rd trimester: 36 periods		24 periods (Adjustable periods (☆): 4 periods) (Optional periods: 8 periods) Total of 12 periods (4 + 8)	

Standard # of periods in a year: 136 periods	110 periods* (Adjustable periods (☆): 14 periods) (Optional periods: 12 periods) Total of 26 periods (14 + 12)
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Note:

- One period is 45 minutes.
- The numbers indicated in the () in the month column show the number of available periods in the month.
- The ☆ symbol in the unit column indicates the periods teachers can adjust by considering students' state of learning.
- The ☉ symbol in the instructional contents column indicates important content. The [] contains terms and symbols students learn in the unit.