

Domains of Curriculum in *Korean Mathematics*
A Mathematics System that combines Procedure with Conceptualization

Grade Domain	1 st Grade	2 nd Grade	3 rd Grade	4 th Grade	5 th Grade	6 th Grade
Numbers	<ul style="list-style-type: none"> • 0~99 • counting, reading, and writing numbers • ordering numbers, adding and separating numbers • places of numbers in the decimal system 	<ul style="list-style-type: none"> • 0~999 • principle of the decimal system • reading and writing numbers • ordering numbers, comparing two numbers • introduction of fractions • reading and writing fractions 	<ul style="list-style-type: none"> • 0~9999 • principle of the decimal system • proper fractions, proper fractions with the same denominator and comparison of fractions • introduction of decimals, reading and writing decimals and comparison of decimals 	<ul style="list-style-type: none"> • over 10,000 • expression using the decimal system • improper fractions, mixed fractions, equivalent fractions • principle of placing the decimal 	<ul style="list-style-type: none"> • divisor and multiple • reduction • relation between fraction and decimal • collection, union, and intersection 	<ul style="list-style-type: none"> • multiplication of 10 repeatedly, display of the decimal system • positive integers, negative integers, ordering numbers and comparing numbers
Operations	<ul style="list-style-type: none"> • addition and subtraction of basic numbers • addition and subtraction for two places • relation between addition and subtraction 	<ul style="list-style-type: none"> • addition and subtraction for three places, mixed calculation • introduction of multiplication • multiplication table • introduction of division 	<ul style="list-style-type: none"> • addition and subtraction for four places • multiplication for two places • division with divisor in one place • addition and subtraction with the same denominator • addition and subtraction of decimals 	<ul style="list-style-type: none"> • four operations in natural numbers • addition and subtraction of fractions with the same denominator • addition and subtraction of decimals 	<ul style="list-style-type: none"> • addition and subtraction with different denominators • multiplication and division of fractions • multiplication and division of decimals 	<ul style="list-style-type: none"> • addition of integers • division of fractions • division of decimals • four operations in rational

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Figures	<ul style="list-style-type: none"> •size and characteristics of triangles, quadrangles, and circles •size and characteristics of rectangular solids, cylinders, and spheres •forming a shape 	<ul style="list-style-type: none"> •segment, straight line •triangle, quadrangle, side, corner point •circle •forming a shape •rectangular solid, edge, and corner point 	<ul style="list-style-type: none"> •angle, right angle •right triangle, isosceles triangle, equilateral triangle •rectangle, square •circle •forming a shape 	<ul style="list-style-type: none"> •parallel lines, property of parallel line •acute triangle, obtuse triangle •parallelogram, rhombus, polygon 	<ul style="list-style-type: none"> •congruence of figures, drawing triangles •line symmetry, point symmetry •rectangular solid, regular solid, expanded picture 	<ul style="list-style-type: none"> •circumference, fan-shape, arc, regular polygon •similarity, enlargement, reduction of figures, ratio of similarity •prism, circular cylinder, expanded picture •tetrahedron, corn, revolution, sphere, expanded picture
M e a s u r e m e n t	<ul style="list-style-type: none"> •length, containing area, weight comparison •reading time •what time, half past what time 	<ul style="list-style-type: none"> •measure of length units: cm, m unit calculation •hour and time •relation of 1 hour, 1 day, 1 week, 1 month, 1 year •measure of value is expressed as “more” or “less” 	<ul style="list-style-type: none"> •units of length: mm, km •measure of weight units: g, kg •calculation of weights •measure of containment units dL, L •calculation of containment •approximation •calculation of time •comparison of angles 	<ul style="list-style-type: none"> •reading time: seconds, hours •measure of angles (°) •units of area cm², m² •perimeter and area of rectangle and square •right triangle, area of triangle •rounding 	<ul style="list-style-type: none"> •unit of containment mL, kL •weight unit mg, Kg, t •km², area of parallelograms, triangles, trapezoids and the rhombus •surface area and volume of rectangular solids, volume units: cm³, m³ •true value, approximate value, error 	<ul style="list-style-type: none"> •circumference, arc length, ratio of circumference •circle fan-shaped •prism, circular cylinder, surface area of corn •volume of prism and circular cylinder •speed, density, population density •reduction, enlargement picture •approximation, calculation of approximation

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Relations	<ul style="list-style-type: none"> •comparison of numbers by matching •forming an expression for a situation •forming an expression, talking about the situation 	<ul style="list-style-type: none"> •recording chart, graph •rules for correspondence •finding the missing number from addition, subtraction, multiplication, division •making a formula and a problem •solving application problems 	<ul style="list-style-type: none"> •classification and arrangement of data, table, bar graph •finding an expression using square, triangle •finding rules of correspondence • finding the missing number in addition, subtraction, multiplication, and division •finding an expression, making a problem •solving application and given problems 	<ul style="list-style-type: none"> •table, folded line graph •expressing a relation between two numbers using square, triangle. •true or false in mathematical sentences, missing number in an equation •finding an expression, making a problem •solving application, process problems and various problem solving •games and puzzles 	<ul style="list-style-type: none"> •picture graph average •expressing using x and y points and coordinates, corresponding relation and expression, comparison chart and graph •solve for x in an equation •ratio and proportion •method of solving problems •games and puzzles 	<ul style="list-style-type: none"> •circle graph, belt graph, quadrangle graph •frequency chart histogram •random number, probability •direct and indirect variation •solving an equation •variation expression, continued ratio, proportional allotment •discussion and inspection, various problem solving methods •games and puzzles

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