

## Contents of *Korean Mathematics* for Grades 1-6

### A Mathematics System that combines Procedure with Conceptualization

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

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

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Figures	<ul style="list-style-type: none"> <li>•size and characteristics of triangles, quadrangles, and circles</li> <li>•size and characteristics of rectangular solids, cylinders, and spheres</li> <li>•forming a shape</li> </ul>	<ul style="list-style-type: none"> <li>•segment, straight line</li> <li>•triangle, quadrangle, side, corner point</li> <li>•circle</li> <li>•forming a shape</li> <li>•rectangular solid, edge, and corner point</li> </ul>	<ul style="list-style-type: none"> <li>•angle, right angle</li> <li>•right triangle, isosceles triangle, equilateral triangle</li> <li>•rectangle, square</li> <li>•circle</li> <li>•forming a shape</li> </ul>	<ul style="list-style-type: none"> <li>•parallel lines, property of parallel line</li> <li>•acute triangle, obtuse triangle</li> <li>•parallelogram, rhombus, polygon</li> </ul>	<ul style="list-style-type: none"> <li>•congruence of figures, drawing triangles</li> <li>•line symmetry, point symmetry</li> <li>•rectangular solid, regular solid, expanded picture</li> </ul>	<ul style="list-style-type: none"> <li>•circumference, fan-shape, arc, regular polygon</li> <li>•similarity, enlargement, reduction of figures, ratio of similarity</li> <li>•prism, circular cylinder, expanded picture</li> <li>•tetrahedron, corn, revolution, sphere, expanded picture</li> </ul>
M e a s u r e m e n t	<ul style="list-style-type: none"> <li>•length, containing area, weight comparison</li> <li>•reading time</li> <li>•what time, half past what time</li> </ul>	<ul style="list-style-type: none"> <li>•measure of length units: cm, m unit calculation</li> <li>•hour and time</li> <li>•relation of 1 hour, 1 day, 1 week, 1 month, 1 year</li> <li>•measure of value is expressed as “more” or “less”</li> </ul>	<ul style="list-style-type: none"> <li>•units of length: mm, km</li> <li>•measure of weight units: g, kg</li> <li>•calculation of weights</li> <li>•measure of containment units dL, L</li> <li>•calculation of containment</li> <li>•approximation</li> <li>•calculation of time</li> <li>•comparison of angles</li> </ul>	<ul style="list-style-type: none"> <li>•reading time: seconds, hours</li> <li>•measure of angles (°)</li> <li>•units of area cm<sup>2</sup>, m<sup>2</sup></li> <li>•perimeter and area of rectangle and square</li> <li>•right triangle, area of triangle</li> <li>•rounding</li> </ul>	<ul style="list-style-type: none"> <li>•unit of containment mL, kL</li> <li>•weight unit mg, Kg, t</li> <li>•km<sup>2</sup>, area of parallelograms, triangles, trapezoids and the rhombus</li> <li>•surface area and volume of rectangular solids, volume units: cm<sup>3</sup>, m<sup>3</sup></li> <li>•true value, approximate value, error</li> </ul>	<ul style="list-style-type: none"> <li>•circumference, arc length, ratio of circumference</li> <li>•circle fan-shaped</li> <li>•prism, circular cylinder, surface area of corn</li> <li>•volume of prism and circular cylinder</li> <li>•speed, density, population density</li> <li>•reduction, enlargement picture</li> <li>•approximation, calculation of approximation</li> </ul>

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

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