

# VERTICAL ARTICULATION OF THE CORE MATH STANDARDS

This chart shows the grade-by-grade progression in the core standards. It outlines a coherent progression in knowledge and skills from Kindergarten through Grade 8.

<b>K</b>	<b>Number and Algebra</b> Compare and order numbers	<b>Geometry</b> Describe shapes and space	<b>Measurement</b> Compare and order objects by attributes
<b>1</b>	<b>Number</b> Develop an understanding of whole number relationships	<b>Number and Algebra</b> Develop an understanding of addition and subtraction	<b>Geometry</b> Compose and decompose shapes
<b>2</b>	<b>Number</b> Develop an understanding of base-ten and place-value	<b>Number and Algebra</b> Fluency with addition and subtraction of whole numbers	<b>Measurement</b> Develop linear measurement
<b>3</b>	<b>Number</b> Develop an understanding of fractions	<b>Number, Algebra and Data Analysis</b> Develop understanding of multiplication and division	<b>Geometry and Measurement</b> Analyze 2-dimensional shapes, including perimeter
<b>4</b>	<b>Number</b> Develop an understanding of Decimals	<b>Number and Algebra</b> Fluency with multiplication of whole numbers	<b>Measurement</b> Area
<b>5</b>	<b>Number and Data Analysis</b> Fluency with addition/sub of fractions and decimals	<b>Number and Algebra</b> Fluency with division of whole numbers	<b>Geometry, Algebra, and Measurement</b> Analyze 3-D shapes, including volume and surface area
<b>6</b>	<b>Number</b> Fluency with multiplication and division of fractions and decimals	<b>Number and Probability</b> Rate, ratio and probability	<b>Algebra</b> Writing and using mathematical expressions and equations
<b>7</b>	<b>Number and Algebra</b> Rational numbers and linear equations	<b>Number, Algebra and Geometry</b> Proportionality and similarity	<b>Measurement and Geometry</b> Develop and use formulas for surface area and volume
<b>8</b>	<b>Algebra</b> Linear functions and equations	<b>Data Analysis and Algebra</b> Analyze and summarize data	<b>Geometry and Measurement</b> Angles and the Pythagorean Theorem