

K- 12 Overview of the Common Core State Standards (CCSS) for Mathematics

The CCSS Mathematic Standards provide a consistent and clear framework of what students are expected to learn and when it is taught. The standards are focused, coherent, and relevant to the real world, describing the knowledge and skills that students need to be college and career ready.

In **K-8** (Elementary, and Middle School) each *grade level* contains skills and content from several *domains*, as described in the table below. For example: In grade 2, the content taught includes the domains of Operation and Algebraic Thinking, Number and Operations in Base Ten, Measurement, and Data, and Geometry.

Grade	K	1	2	3	4	5	6	7	8	HS Conceptual Categories	
Domain	Counting and Cardinality									Number and Quantity	
	Number and Operations in Base Ten						Ratios and Proportional Relationships				
				Number and Operations: Fractions			The Number System				
	Operations and Algebraic Thinking						Expressions and Equations			Algebra	
									Functions	Functions	
	Geometry						Geometry			Geometry	
Measurement and Data						Statistics and Probability			Statistics and Probability		

In **High School**, the standards are arranged by *conceptual categories*, such as Algebra or Functions. In each conceptual category there are *domains*, such as Creating Equations and Interpreting Functions.

Conceptual Categories	Number & Quantity*	Algebra*	Functions*	Geometry*	Statistics & Probability*
Domain	The Real Number System	Seeing Structure in Expressions	Interpreting Functions	Congruence	Interpreting Categorical & Quantitative Data
	Quantities	Arithmetic with Polynomials & Rational Expressions	Building Functions	Similarity, Right Triangles, & Trigonometry	Making Inferences & Justifying Conclusions
	The Complex Number System	Creating Equations	Linear, Quadratic, & Exponential Models	Circles	Conditional Probability & the Rules of Probability
	Vector & Matrix Quantities	Reasoning with Equations & Inequalities	Trigonometric Functions	Expressing Geometric Properties with Equations	Using Probability to Make Decisions
				Geometric Measurement & Dimension	
				Modeling with Geometry	