

Alaska Mathematics Standards Organization (June 2012)

This chart shows the organization of mathematics standards and the domain progression from Kindergarten through High School.

Standards for Mathematical Practice									
1. Make sense of problems and persevere in solving them					5. Use appropriate tools strategically				
2. Reason abstractly and quantitatively					6. Attend to precision				
3. Construct viable arguments and critique the reasoning of others					7. Look for and make use of structure				
4. Model with mathematics					8. Look for and express regularity in repeated reasoning				
Standards for Mathematical Content									
Kindergarten	1	2	3	4	5	6	7	8	High School
Counting and Cardinality								Number & Quantity	Modeling
Number and Operations in Base Ten						Ratios and Proportional Relationships			
			Number and Operations - Fractions			Number System			
Operations and Algebraic Thinking						Expressions and Equations		Algebra	
						Functions		Functions	
Geometry								Geometry	
Measurement and Data						Statistics and Probability		Statistics and Probability	

Instruction around the **Standards for Mathematical Practices** is delivered across all grades K-12. **Domains** are large groups of related standards. Each color shows how domains at the earlier grades progress and lead to conceptual categories in the high school. On the right side are the conceptual categories including the modeling domain which is incorporated throughout standards in the other five domains. To the left of each high school domain, one can find the domains from elementary and middle school levels from which this concept builds.