FIGURE 2

State Composite: Mathematics topics intended at each grade by at least two-thirds of 21 U.S. states.

Note that topics are introduced and sustained in a way that produces no visible structure.

TOPIC	***GRADE:***	***1***	***2***	***3***	***4***	***5***	***6***	***7***	***8***
Whole Number Meaning		■	■	■	■	▒	□		
Whole Number Operations		■	■	■	■	▒	□		
Measurement Units		▒	■	■	▒	■	■	■	▒
Common Fractions		□	▒	▒	▒	■	▒	□	□
Equations & Formulas		□	□	▒	▒	▒	■	■	■
Data Representation & Analysis		■	■	■	■	■	■	■	▒
2-D Geometry: Basics		▒	▒	▒	▒	▒	▒	▒	▒
Polygons & Circles		■	■	■	■	■	■	■	▒
Perimeter, Area & Volume			□	□	□	▒	■	■	▒
Rounding & Significant Figures									
Estimating Computations		□	□	▒	▒	▒	▒	▒	▒
Properties of Whole Number Operations		□	□	□	□				
Estimating Quantity & Size				□					
Decimal Fractions				□	▒	▒	▒	□	□
Relationship of Common & Decimal Fractions					□	□	□		
Properties of Common & Decimal Fractions									
Percentages						□	▒	▒	□
Proportionality Concepts							▒	□	
Proportionality Problems							▒	▒	▒
2-D Coordinate Geometry				□	▒	□	□	□	▒
Geometry: Transformations		▒	▒	▒	▒	▒	▒	▒	▒
Negative Numbers, Integers & Their Properties							□	▒	□
Number Theory						▒	□	□	□
Exponents, Roots & Radicals							□	□	■
Exponents & Orders of Magnitude								□	□
Measurement Estimation & Errors		□	□	▒	□	▒	▒	▒	□
Constructions w/ Straightedge & Compass									
3-D Geometry		■	■	■	▒	■	▒	■	▒
Congruence & Similarity						□	▒	▒	□
Rational Numbers & Their Properties							▒	▒	□
Patterns, Relations & Functions		▒	■	■	■	▒	■	■	■
Slope & Trigonometry									
Number of topics covered by at least 67% of the states		14	15	18	18	20	25	23	22
Number of additional topics intended by states to complete a typical curriculum at each grade level		8	8	7	8	8	5	6	6

□ – intended by 67% of the states ▒ – intended by 83% of the states ■ – intended by 100% of the states