Mathematics Blueprint
WVGSA Grade 4

WVGSA Blueprint - Grade 4		
Domain	**Number of Items**	
Cluster	**Min**	**Max**
Operations and Algebraic Thinking	**8**	**11**
Use the four operations with whole numbers to solve problems	2	6
Gain familiarity with factors and multiples	0	3
Generate and analyze patterns	0	3
Number and Operations in Base Ten & Fractions	**15**	**18**
Generalize place value understanding for multi-digit whole numbers	0	5
Use place value understanding and properties of operations to perform multi-digit arithmetic	0	5
Extend understanding of fraction equivalence and ordering	0	3
Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers	0	3
Understand decimal notation for fractions, and compare decimal fractions	0	5
Measurement, Data and Geometry	**8**	**10**
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit	0	4
Represent and interpret data	0	2
Geometric measurement: understand concepts of angle and angle measure	0	5
Draw and identify lines and angles, and classify shapes by properties of their lines and angles	0	5

The domains are labeled OA, NBT & NF, and MD & G.

DOK Ranges	Min	Max
DOK 1	5	9
DOK 2	17	22
DOK 3	5	9

Mathematical Habits of Mind Sub-Score	Min	Max
MHM: Modeling and Problem Solving	8	12
MHM: Use Mathematical Reasoning	8	12