

# Mathematics Blueprint

## WVGSA Grade 4



WVGSA Blueprint - Grade 4			
Domain		Number of Items	
Cluster		Min	Max
OAT	<b>Operations and Algebraic Thinking</b>	<b>8</b>	<b>11</b>
	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
NBT & NF	<b>Number and Operations in Base Ten &amp; Fractions</b>	<b>15</b>	<b>18</b>
	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	
MD & G	<b>Measurement, Data, and Geometry</b>	<b>8</b>	<b>10</b>
	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 angles and measure angles.	0	5
	Draw and identify lines and angles and classify shapes by properties of their lines and angles.	0	5
<b>DOK Ranges</b>		<b>Min</b>	<b>Max</b>
DOK 1		5	9
DOK 2		17	22
DOK 3		5	9
<b>Mathematical Habits of Mind Sub-Score</b>		<b>Min</b>	<b>Max</b>
MHM: Modeling and Problem Solving		8	12
MHM: Use Mathematical Reasoning		8	12