HSGQE Test Item Map
Numbers of Test Questions by Performance Standard
Reading, Writing and Mathematics: Form C

Performance Standards: Reading and Writing	Number of Test Questions			Percent of Emphasis	Total Raw Score Points
	Multiple-choice	Short Response	Extended Response		
Reading Totals	40	13	1	100%	73
R4.1 Use context clues	9			12%	9
R4.2 Analyze and evaluate themes	2	3		12%	9
R4.4 Summarize information; make connections	5	2	1	19%	14
R4.5 Support main idea; critique arguments	13	1		19%	14
R4.6 Read and apply multi-step directions	4	1		8%	6
R4.7 Analyze literary conventions & techniques	4	1		11%	8
R4.8 Analyze narrative elements	1	3		10%	7
R4.9 Make and support assertions	2	2		8%	6
Writing Totals	40	5	1	100%	68
W4.1 Write compositions W4.2 Demonstrate elements of discourse	0	4	1	32%	22
W4.3 Use conventional English	18	1		35%	24
W4.4 Revise writing	22			32%	22

HSGQE Test Item Map
Numbers of Test Questions by Performance Standard
Reading, Writing and Mathematics: Form C

Performance Standards: Mathematics	Number of Test Questions			Percent of Emphasis	Total Raw Score Points
	Multiple-choice	Short Response	Extended Response		
A1: **Numeration**	**6**	**1**		**10%**	**8**
A1.4.1 Read, write, model, order, and define real numbers and subsets.	3				
A1.4.2 Add in a different base system					
A1.4.3 Compare and contrast the relationship between various applications of the same operation.					
A1.4.4 Translate between equivalent representations of the same exponential expressions.	1				
A1.4.7 Recognize, describe, and use properties of the real number system.	2	1			
A2: **Measurement**	7	2		**14%**	**11**
A2.4.1 Evaluate measurements for accuracy, precision, and error with respect to the measuring tools, methods, and the computational process.	2				
A2.4.2 Estimate and convert measurements between different systems.	2				
A2.4.3 Apply various measurement to describe situations and solve problems.	1				
A2.4.4 Use indirect methods, including the Pythagorean Theorem and right triangle trigonometry, to find missing dimensions.	2	2			

HSGQE Test Item Map
Numbers of Test Questions by Performance Standard
Reading, Writing and Mathematics: Form C

Performance Standards: Mathematics	Number of Test Questions			Percent of Emphasis	Total Raw Score Points
	Multiple-choice	Short Response	Extended Response		
A3: **Estimation and Computation**	**7**	**2**		**14%**	**11**
A3.4.1 Use estimation to solve problems and to check the accuracy of solutions; state whether the estimation is greater or less than the exact answer.					
A3.4.3 Add and subtract real numbers using scientific notation, powers, and roots.	2				
A3.4.4 Multiply and divide real numbers in various forms including scientific notation, powers, and roots.	2	1			
A3.4.5 Select, convert, and apply an equivalent representation of a number for a specified situation.					
A3.4.6 Use ratios and proportions to model and solve fraction and percent problems with variables.	3	1			
A4: **Functions and Relationships**	**11**	**3**		**21%**	**17**
A4.4.1 Identify, graph, and describe the graphs of basic families of functions including linear, absolute value, quadratic, and exponential using a graphing calculator.	3				
A4.4.2 Create and solve linear and quadratic equations and inequalities.	2	2			
A4.4.3 Create and solve simple systems of equations, algebraically and graphically, using a graphing calculator.	1				

HSGQE Test Item Map
Numbers of Test Questions by Performance Standard
Reading, Writing and Mathematics: Form C

Performance Standards: Mathematics	Number of Test Questions			Percent of Emphasis	Total Raw Score Points
	Multiple-choice	Short Response	Extended Response		
A4.4.4 Use discrete structures, such as networks, matrices, sequences, and iterations as tools to analyze patterns, expressions, and equations.	3	1			
A4.4.5 Add, subtract, multiply, divide, and simplify rational expressions; add, subtract, and multiply polynomials.	2				
A5: **Geometry**	**11**	**1**	**1**	**21%**	**17**
A5.4.1 Identify and use the properties of polygons including interior and exterior angles and circles (including angles, arc, chord, secants, and tangents) to solve practical problems.	5	1			
A5.4.2 Create 2-dimentional representations of 3-dimensional objects.	1				
A5.4.3 Identify congruent and similar figures using Euclidean and coordinate geometry; apply this information to solve problems.	1				
A5.4.5 Use transformations to demonstrate geometric properties..	2				
A5.4.6 Use coordinate geometry to graph linear equations, determine slopes of lines, identify parallel and perpendicular lines, and to find possible solutions to sets of equations.	2		1		

HSGQE Test Item Map
Numbers of Test Questions by Performance Standard
Reading, Writing and Mathematics: Form C

Performance Standards: Mathematics	Number of Test Questions			Percent of Emphasis	Total Raw Score Points
	Multiple-choice	Short Response	Extended Response		
A5.4.7 Construct geometric models, transformations, and scale drawings using a variety of methods including paper folding, compass, straight edge, protractor, technology.					
A6: **Statistics and Probability**	**10**	**1**	**1**	**20%**	**16**
A6.4.1 Analyze and draw inferences from a wide variety of data sources that summarize data; constructing graphical displays with and without technology.	3	1	1		
A6.4.2 Determine the line of best fit and use it to predict unknown data values.					
A6.4.3 Describe data, selecting measures of central tendencies and distribution, to convey information in the data.	4				
A6.4.4 Analyze the validity of statistical conclusions and the use, misuse, and abuse of data caused by a wide variety of factors including choices of scale, probability vs. odds, inappropriate choices of measures of center, incorrect curve fitting, and inappropriate uses of controls or sample groups.	2				
A6.4.5 Analyze data from multiple events and predict theoretical probability; find and compare experimental and theoretical probability for a simple situation, discussing possible differences between two results.	1				

HSGQE Test Item Map
Numbers of Test Questions by Performance Standard
Reading, Writing and Mathematics: Form C

Performance Standards: Mathematics	Number of Test Questions			Percent of Emphasis	Total Raw Score Points
	Multiple-choice	Short Response	Extended Response		
A6.4.6 Design, conduct, analyze, and communicate the results of multi-stage probability experiments.					