

2019 Spring/Summer Benchmark Exam Topics

TEST A: CCSSM 8 Bridge to HS Algebra 1 60 minutes total, 2 Sections: Calculator and No Calculator	
Unit Description	Specific Standard from Common Core State Standards for Mathematics
Unit 1: Solving Linear Equations	8.EE.7
Unit 2: Functions	8.F.1, 8.F.2
Unit 3: Linear Functions	8.EE.5, 8.EE.6, 8.F.3, 8.F.4, 8.F.5
Unit 4: Simultaneous Linear Functions	8.EE.8
Unit 5: Congruence and Similarity	8.G.3, 8.G.5
Unit 6: Properties and Applications of Exponents	8.EE.1

TEST B: CCSSM HS Algebra 1 60 minutes total, 2 Sections: Calculator and No Calculator	
Unit Description	Specific Standard from Common Core State Standards for Mathematics
Unit 1: Represent Relationships Mathematically & Understand Functions	F.IF.1, F.IF.2, F.IF.5
Unit 2: Solve Linear Equations & Inequalities	A.CED.1, A.CED.2, A.CED.3, A.CED.4, A.REI.3
Unit 3: Graph and Write Linear Equations & Inequalities	F.IF.7a, A-CED.2
Unit 4: Systems of Linear Equations & Inequalities	A.REI.11, A.REI.12, A.CED.2, A.CED.3
Unit 6: Transformations and Non-linear Function Notation	A.REI.6, A.REI.12, A.CED.2-3
Unit 7: Laws of Exponentials and Exponential Functions	N.RN.2, F.IF.7, F.IF.8, F.IF.9
Unit 8: Quadratic Functions and Polynomial Expressions	A.SSE.2, A.APR.1

TEST C: CCSSM HS Algebra 2 60 minutes total, 2 Sections: Calculator and No Calculator The major content on the assessment will be focused around Units 5-9, with some concepts to be revisited from Semester 1 (Units 1-4).	
Unit Description	Specific Standard from Common Core State Standards for Mathematics
Unit 1: Transformations and Quadratic Relations & Equations	A.REI.4, F.IF.4, F.BF.3, F.IF.7, A.SSE.1, A.SSE.3.a
Unit 2: Polynomial Functions & Equations	A.APR.2, A.APR.3, A.SSE.2, A.REI.11
Unit 3: Rational Functions & Equations	A.REI.2, A.SSE.2, F.BF.3, A.APR.7
Unit 4: Radical Functions & Equations	A.REI.2, F.IF.4, N-RN.2
Units 5/6: Exponential/Logarithmic Functions & Equations	F.IF.4, F.IF.8, F.IF.9, A.REI.11
Unit 7: Sequences and Series	F.IF.3
Unit 8: Statistics and the Normal Distribution	S.IC.1, S-IC.2, S-IC.3, S-IC.4
Unit 9: Unit Circle and Trigonometric Functions	F-TF.1, F-TF.2