

ENRY LEARNING PROGRESSIONS

GSE Algebra II Math

Quarter 1		Quarter 2		Quarter 3	Qu	Quarter 4	
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	
4 Weeks	4 Weeks	5 Weeks	8 Weeks	5 Weeks	5 Weeks	5 Weeks	
Quadratics Revisited	Operations with Polynomials	Polynomial Functions	Rational and Radical Relationships	Exponential and Logarithms	Mathematical Modeling	Inferences and Conclusions from Data	
Perform	Perform	Use complex numbers in	Rewrite rational	Write expressions in	Write expressions in	Summarize,	
arithmetic	arithmetic	polynomial identities and	expressions	equivalent forms to	equivalent forms to	represent, and	
operations with	operations on	equations.	MGSE9-12.A.APR.7	solve problems	solve problems	interpret data on a	
complex	polynomials	MGSE9-12.N.CN.9	(Rewrite rational	MGSE9-12.A.SSE.3	MGSE9-12.A.SSE.4	single count or	
numbers.	MGSE9-	(Fundamental Theorem of	expressions)	(Equivalent	(Derive formula for	measurement	
MGSE9-	12.A.APR.1	Algebra)	Write expressions in	expressions)	sum of finite	variable	
12.N.CN.1	(Add, subtract &	Interpret the structure of	equivalent forms to	MGSE9-12.A.SSE.3c	geometric series)	MGSE9-12.S.ID.2	
(Complex	multiply	expressions	solve problems	(Properties of	MGSE9-12.A.CED.1	(Shape and data	
numbers)	polynomials)	MGSE9-12.A.SSE.1	MGSE9-12.A.CED.1	exponents)	(Create equations &	distribution)	
MGSE9-	MGSE9-	MGSE9-12.A.SSE.1a	(Create equations &	Analyze functions	inequalities-1	MGSE9-12.S.ID.4	
12.N.CN.2	12.A.APR.5	MGSE9-12.A.SSE.1b	inequalities-1	using different	variable)	(Fit to a normal	
(Complex	(Binomial	(Interpret expressions;	variable)	representations	MGSE9-12.A.CED.2	distribution)	
numbers &	Theorem)	Interpret parts & terms of	MGSE9-12.A.CED.2	MGSE9-12.F.IF.7	(create equations &		
properties)	Rewrite rational	expressions)	(Create equations &	(Graph functions)	inequalities-2	Understand and	
MGSE9-	expressions	MGSE9-12.A.SSE.2	inequalities-2	MGSE9-12.F.IF.7e	variables)	evaluate random	
12.N.CN.3	MGSE9-	(Equivalent expressions)	variables)	(Graph exponential &	MGSE9-12.A.CED.3	processes underlying	
(Conjugate of	12.A.APR.6	Understand the relationship	Understand solving	logarithmic functions)	(Represent	statistical	
complex	(Rewrite	between zeros and factors of	equations as a	MGSE9-12.F.IF.8	constraints)	experiments	
numbers)	rational	polynomials	process of reasoning	(Write a function)	MGSE9-12.A.CED.4	MGSE9-12.S.IC.1	
Use complex	expressions)	MGSE9-12.A.APR.2	and explain the	MGSE9-12.F.IF.8b	(Rearrange formulas)	(Inferences from a	
numbers in	Build a function	(Remainder Theorem)	reasoning	(Interpret	Represent and solve	random sample)	
polynomial	that models a	MGSE9-12.A.APR.3	MGSE9-12.A.REI.2	expressions)	equations and	MGSE9-12.S.IC.2	
identities and	relationship	(Identify zeros)	(Solve simple radical	Build new functions	inequalities	(Using simulations)	
equations.	between two	Use polynomial identities to	& rational equations)	from existing	graphically		
MGSE9-	quantities	solve problems	Interpret functions	functions	MGSE9-12.A.REI.11	Make inferences and	
12.N.CN.7	MGSE9-12.F.BF.1	MGSE9-12.A.APR.4	that arise in	MGSE9-12.F.BF.5	(Solutions to	justify conclusions	
(Solve	(Write a	(Polynomial Identities)	applications in terms	(Inverse relationships)	equations)	from sample surveys,	
quadratics with	function)	Interpret functions that arise in	of the context	Construct and	Interpret functions	experiments, and	
complex	MGSE9-	applications in terms of the	MGSE9-12.F.IF.4	compare linear,	that arise in	observational studies	
solutions)	12.F.BF.1b	context	(Characteristics of	quadratic, and	applications in terms	MGSE9-12.S.IC.3	
		MGSE9-12.F.IF.4	functions)		of the context	(Randomization)	



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MGSE9-	(Combine	(Characteristics of functions)	MGSE9-12.F.IF.5	exponential models	MGSE9-12.F.IF.6	MGSE9-12.S.IC.4
12.N.CN.8	standard	Analyze functions using	(Domains of	and solve problems	(Average rate of	(Population mean)
(Factoring with	functions)	different representations	functions)	MGSE9-12.F.LE.4	change)	MGSE9-12.S.IC.5
complex	MGSE9-	MGSE9-12.F.IF.7	Analyze functions	(Express exponential	MGSE9-12.F.IF.9	(Compare 2
solutions)	12.F.BF.1c	(Graph functions)	using different	models as	(Compare 2	treatments)
Solve equations	(Compose	MGSE9-12.F.IF.7c	representations	logarithmic)	functions)	MGSE9-12.S.IC.6
and inequalities	functions)	(Graph polynomial functions)	MGSE9-12.F.IF.7		Build new functions	(Evaluate reports
in one variable	Build new		(Graph Functions)		from existing	based on data)
MGSE9-	functions from		MGSE9-12.F.IF.7b		functions	
12.A.REI.4	existing		(Graph square rt,		MGSE9-12.F.BF.3	
(Solve quadratics	functions		cube rt, piecewise,		(Build new functions	
in 1 variable)	MGSE9-12.F.BF.4		step & absolute value		from existing	
MGSE9-	(Inverse		functions)		functions)	
12.A.REI.4b	functions)		MGSE9-12.F.IF.7d			
(Solve quadratic	MGSE9-		(Graph rational			
equations by	12.F.BF.4a		functions)			
inspection)	(f(x)=c &					
Extend the	inverse)					
properties of	MGSE9-					
exponents to	12.F.BF.4b					
rational	(Use					
exponents.	composition to					
MGSE9-	verify inverses)					
12.N.RN.1	MGSE9-					
(Rational	12.F.BF.4c					
exponents)	(Values of					
MGSE9-	inverse function					
12.N.RN.2	from graph or					
(Expressions	table)					
with radicals &						
rational						
exponents)						