## Cord Bridges ( $3^{rd}$ edition), Cord Algebra 1 ( $3^{rd}$ edition), Cord Geometry ( $3^{rd}$ edition), and Cord Algebra 2 ( $1^{st}$ edition) correlation to NCTM Curriculum and Evaluation Standards

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 1 Mathematics as Problem Solving				
In grades 9-12, the mathematics curriculum should solving so that all students can	l include the refinen	nent and extension	of methods of mathe	ematical problem
• use, with increasing confidence, problem- solving approaches to investigate and understand mathematical content;	n- In each book, a 4-Step Problem Solving feature has students analyze a problem-solving situation and apply a given strategy. Students further their understanding of problem-solving in the Math Applications sections at the end of each chapter of Algebra 1, Geometry, and Algebra 2 and in the Cumulative Review sections of Bridges.			
• apply integrated mathematical problem- solving strategies to solve problems from within and outside mathematics;	Students use integrated problem-solving strategies in the         Math Applications sections at the end of each chapter of Algebra 1,         Geometry, and Algebra 2 and in the Cumulative Review sections         of Bridges.			
<ul> <li>recognize and formulate problems from situations within and outside mathematics;</li> </ul>	Students solve problems from situations within and outside mathematics in the Math Applications sections at the end of each chapter of Algebra 1, Geometry, and Algebra 2 and in the Cumulative Review sections of Bridges.			
• apply the process of mathematical modeling to real-world problem situations.	Math Applicat	ions sections at the nd Algebra 2 and in	eling of real-world s end of each chapter the Cumulative Re idges.	r of Algebra 1,

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2			
	Lessons	Lessons	Lessons	Lessons			
Standard 2 Mathematics as Communication							
In grades 9-12, the mathematics curriculum should		ued development of	f language and symb	polism to			
communicate mathematical ideas so that all studer							
<ul> <li>reflect upon and clarify their thinking</li> </ul>			nathematical ideas i				
about mathematical ideas and	sections at the end of each chapter in Bridges, Algebra 1, Geometry, and						
relationships;	Algebra 2.						
• formulate mathematical definitions and	Students conduct investigations and formulate mathematical definitions in						
express generalizations discovered	the Math Labs sections at the end of each chapter in Bridges, Algebra 1,						
through investigations;	Geometry, and Algebra 2.						
• express mathematical ideas orally and in	Students answer Think and Discuss questions in every lesson. These						
writing;	questions are co	-	for good class discu	ssions as well as			
			esponses.				
• read written presentations of mathematics			d written presentatio				
with understanding;	1		feature in Algebra 1	•			
			features throughou	<u> </u>			
<ul> <li>ask clarifying and extending questions</li> </ul>		11 .	clarifying and exter	01			
related to mathematics they have read or	• 1		essons in the progra				
heard about;	Math Labs sec		each chapter in Brid	ges, Algebra 1,			
	Geometry, and Algebra 2.						
• appreciate the economy, power, and	The Math Applications sections at the end of each chapter in Algebra 1,						
elegance of mathematical notation and its	•	ē	the Cumulative Re				
role in the development of mathematical		-	ain an appreciation of				
ideas.	they see mathe	ematics application	s in various industri	al applications.			

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 3 Mathematics as Reasoning				·
In grades 9-12, the mathematics curriculum should	include numerous	and varied experie	nces that reinforce a	nd extend logical
reasoning skills so that all students can				
• make and test conjectures;			2.1, 2.2, 2.3, 2.4,	
			2.5, 2.6, 2.7, 2.8,	
			3.5	
• formulate counterexamples;			2.1, 2.2, 2.3, 2.4,	
<b>A</b>			2.5, 2.6, 2.7, 2.8,	
			3.5	
• follow logical arguments;			2.1, 2.2, 2.3, 2.4,	
,			2.5, 2.6, 2.7, 2.8,	
			3.5	
• judge the validity of arguments;			2.1, 2.2, 2.3, 2.4,	
<b>J C J C J</b>			2.5, 2.6, 2.7, 2.8,	
			3.5	
• construct simple valid arguments;			2.1, 2.2, 2.3, 2.4,	
1 0 /			2.5, 2.6, 2.7, 2.8,	
			3.5	
and so that, in addition, college-intending students	can		•	
• construct proofs for mathematical			2.1, 2.2, 2.3, 2.4,	mathematical
assertions, including indirect proofs and			2.5, 2.6, 2.7, 2.8,	induction not
proofs by mathematical induction.			3.5, 7.5	covered

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 4 Mathematical Connections				
In grades 9-12, the mathematics curriculum should	l include investigati	on of the connection	ns and interplay am	ong various
mathematical topics and their applications so that a	all students can			
• recognize equivalent representations of	1.4, 1.6, 3.3, 4.1,	1.4, 1.5, 2.2, 3.2,	3.2, 3.7, 4.2, 4.5,	2.1, 2.2, 2.4, 4.4,
the same concept;	4.2, 6.2, 8.2, 9.4,	4.4, 4.5, 6.1, 8.2,	5.3, 6.5, 8.6,	6.6
_	11.6	10.2, 10.6, 13.4	10.8	
• relate procedures in one representation to	1.4, 1.6, 3.3, 4.1,	1.4, 1.5, 2.2, 3.2,	3.2, 3.7, 4.2, 4.5,	2.1, 2.2, 2.4, 4.4,
procedures in an equivalent	4.2, 6.2, 8.2, 9.4,	4.4, 4.5, 6.1, 8.2,	5.3, 6.5, 8.6,	6.6
representation;	11.6	10.2, 10.6, 13.4	10.8	
• use and value the connections among	As students solve	problems in the Ma	ath Applications sec	tions at the end of
mathematical topics;	each chapter of A	lgebra 1, Geometry,	, and Algebra 2 and	in the Cumulative
	Review sectio	ons of Bridges, they	make connections a	among various
		mathemati	ical topics.	
• use and value the connections between	As students solve	problems in the Ma	ath Applications sec	tions at the end of
mathematics and other disciplines.	each chapter of Algebra 1, Geometry, and Algebra 2 and in the Cumulative			
	Review sections	of Bridges, they ma	ke connections betw	veen mathematics
		and other of	disciplines.	

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 5 Algebra				
In grades 9-12, the mathematics curriculum should	d include the continu	ued study of algebra	aic concepts and me	thods so that all
students can				
• represent situations that involve variable	1.3, 4.1, 4.2, 4.3,	1.8, 1.9, 3.1, 3.2,	2.6, 3.1, 3.2, 4.1,	1.2, 1.3, 1.4, 1.5,
quantities with expressions, equations,	4.4, 4.5, 4.6, 5.7,	3.3, 3.4, 3.5, 3.6,	4.4, 7.4, 9.1	1.6, 2.1, 2.2, 2.3,
inequalities, and matrices;	5.8, 6.3, 7.5, 8.6,	4.2, 4.3, 4.4, 4.5,		2.4, 2.5, 3.1, 3.2,
	9.2, 9.4, 9.5, 9.6	4.6, 4.7, 5.3, 5.4,		3.3, 3.4, 3.5, 4.2,
		5.5, 5.6, 7.3, 8.1,		4.3, 4.4, 4.5, 5.1,
		8.2, 8.3, 8.4, 8.5,		5.2, 5.3, 5.4, 5.5,
		9.2, 9.3, 9.4, 9.5,		6.1, 6.2, 6.3, 6.4,
		9.6, 9.7, 10.1,		6.5, 6.6, 7.1, 7.2,
		10.2, 10.3, 10.4,		7.3, 7.4, 7.5, 7.6,
		10.5, 10.6, 10.7,		7.7, 8.1, 8.2, 8.3,
		11.1, 11.2, 11.3,		8.4, 8.5, 8.6, 9.1,
		11.4, 11.5, 11.6,		9.2, 9.3, 9.4, 9.5,
		12.1, 12.2, 12.3,		10.1, 10.2, 10.3,
		12.4, 12.5, 13.6		10.4, 10.5, 10.6,
				11.1, 11.2, 11.3,
				11.4, 11.5
• use tables and graphs as tools to interpret	5.7, 5.8, 9.2, 9.4,	4.2, 4.3, 4.4, 4.5,	7.4	1.5, 1.6, 2.1, 2.3,
expressions, equations, and inequalities;	9.5	4.6, 4.7, 5.3, 5.4,		2.4, 4.1, 4.2, 4.4,
		5.5, 5.6, 7.3, 8.1,		4.5, 6.1, 7.3, 7.4,
		8.2, 9.2, 9.3,		7.5, 7.6, 7.7, 8.1,
		9.4, 9.5, 9.6, 9.7,		8.2, 8.4, 10.1
		11.1, 12.1, 12.2		

		1 2 4 1 4 2 4 2	10100100	0 < 0 1 0 0 1 1	1 2 1 2 1 4 1 5
•	operate on expressions and matrices, and	1.3, 4.1, 4.2, 4.3,	1.8, 1.9, 3.1, 3.2,	2.6, 3.1, 3.2, 4.1,	1.2, 1.3, 1.4, 1.5,
	solve equations and inequalities;	4.4, 4.5, 4.6, 5.7,		4.4, 7.4	1.6, 2.1, 2.2, 2.3,
		5.8, 6.3	4.2, 4.3, 4.4, 4.5,		2.4, 2.5, 3.1, 3.2,
			4.6, 4.7, 8.1, 8.2,		3.3, 3.4, 3.5, 4.2,
			8.3, 8.4, 8.5, 9.2,		4.3, 4.4, 4.5, 5.1,
			9.3, 9.4, 9.5, 9.6,		5.2, 5.3, 5.4, 5.5,
			9.7, 10.1, 10.2,		6.1, 6.2, 6.3, 6.4,
			10.3, 10.4, 10.5,		6.5, 6.6, 7.1, 7.2,
			10.6, 10.7, 11.1,		7.3, 7.4, 7.5, 7.6,
			11.2, 11.3, 11.4,		7.7, 8.1, 8.2, 8.3,
			11.5, 11.6, 12.1,		8.4, 8.5, 8.6, 9.1,
			12.2, 12.3, 12.5,		9.2, 9.3, 9.4, 9.5,
			12.4, 13.6		10.1, 10.2, 10.3,
			,		10.4, 10.5, 10.6
•	appreciate the power of mathematical	1.3, 4.1, 4.2, 4.3,	1.8, 1.9, 3.1, 3.2,	2.6, 3.1, 3.2, 4.1,	1.2, 1.3, 1.4, 1.5,
	abstraction and symbolism;	4.4, 4.5, 4.6, 5.7,			1.6, 2.1, 2.2, 2.3,
		5.8, 6.3, 9.2, 9.4,			2.4, 2.5, 3.1, 3.2,
		9.5, 9.6	4.6, 4.7, 5.3, 5.4,		3.3, 3.4, 3.5, 4.1,
		,	5.5, 5.6, 7.3, 8.1,		4.2, 4.3, 4.4, 4.5,
			8.2, 8.3, 8.4, 8.5,		5.1, 5.2, 5.3, 5.4,
			9.2, 9.3, 9.4, 9.5,		5.5, 6.1, 6.2, 6.3,
			9.6, 9.7, 10.1,		6.4, 6.5, 6.6, 7.1,
			10.2, 10.3, 10.4,		7.2, 7.3, 7.4, 7.5,
			10.5, 10.6, 10.7,		7.6, 7.7, 8.1, 8.2,
			11.1, 11.2, 11.3,		8.3, 8.4, 8.5, 8.6,
			11.4, 11.5, 11.6,		9.1, 9.2, 9.3, 9.4,
			12.1, 12.2, 12.3,		9.5, 10.1, 10.2,
			12.4, 12.5, 13.6		10.3, 10.4, 10.5,
					10.6, 11.1, 11.2,
					11.3, 11.4, 11.5
			1	1	11.3, 11.7, 11.3

and so that, in addition, college-intending students can-	-		
• use matrices to solve linear systems;			3.5
• demonstrate technical facility with algebraic transformations, including techniques based on the theory of equations.	4.6, 4.7	7.4, 7.5	1.4, 1.5, 1.6, 4.5

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 6 Functions				
In grades 9-12, the mathematics curriculum should	d include the conti	nued study of function	ns so that all stude	nts can
• model real-world phenomena with a	9.7	4.5, 4.6, 4.7, 5.1,		4.1, 4.2, 4.3, 4.4,
variety of functions;		5.2, 5.3, 5.4, 5.5,		4.5, 6.1, 8.1, 8.2,
		5.6, 11.2		9.1, 10.1, 12.3,
				12.4, 13.1
• represent and analyze relationships using	9.7	4.5, 4.6, 4.7, 5.1,		4.1, 4.2, 4.3, 4.4,
tables, verbal rules, equations, and		5.2, 5.3, 5.4, 5.5,		4.5, 6.1, 8.1, 8.2,
graphs;		5.6, 11.2		9.1, 10.1, 12.3,
				12.4, 13.1
• translate among tabular, symbolic, and	9.7	4.5, 4.6, 4.7, 5.1,		4.1, 4.2, 4.3, 4.4,
graphical representations of functions;		5.2, 5.3, 5.4, 5.5,		4.5, 6.1, 8.1, 8.2,
		5.6, 11.2		9.1, 10.1, 12.3,
				12.4, 13.1
• recognize that a variety of problem	9.7	4.5, 4.6, 4.7, 5.1,		4.1, 4.2, 4.3, 4.4,
situations can be modeled by the same		5.2, 5.3, 5.4, 5.5,		4.5, 6.1, 8.1, 8.2,
type of function;		5.6, 11.2		9.1, 10.1, 12.3,
				12.4, 13.1
• analyze the effects of parameter changes	9.7	4.5, 4.6, 4.7, 5.1,		4.5, 6.1, 8.1, 8.2,
on the graphs of functions;		5.2, 5.3, 5.4, 5.5,		9.1, 10.1, 13.1
		5.6, 11.2		
and so that, in addition, college-intending students	s can			
• understand operations on, and the general	9.7	4.5, 4.6, 4.7, 5.3,		4.1, 4.2, 4.3, 4.4,
properties and behavior of, classes of		5.4, 5.5, 5.6,		4.5, 6.1, 8.1, 8.2,
functions.		11.2		9.1, 10.1, 13.1

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 7 Geometry from a Synthetic Perspec	tive			
In grades 9-12, the mathematics curriculum should so that all students can	l include the continu	ed study of the ge	ometry of two and th	ree dimensions
<ul> <li>interpret and draw three-dimensional objects;</li> </ul>	12.1		10.1, 10.2	
<ul> <li>represent problem situations with geometric models and apply properties of figures;</li> </ul>	10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 11.1, 11.2, 11.7, 12.2, 12.3, 12.4, 12.5, 12.6		$\begin{array}{c} 1.1, 1.2, 1.3, 1.4, \\ 1.5, 3.1, 3.2, 3.3, \\ 3.4, 3.5, 3.6, 3.7, \\ 3.8, 4.2, 4.3, 4.4, \\ 4.5, 5.2, 5.3, 5.4, \\ 5.5, 5.6, 6.1, 6.2, \\ 6.3, 6.4, 6.5, 6.6, \\ 8.1, 8.2, 8.3, 8.4, \\ 8.5, 8.6, 9.2, 9.3, \\ 9.4, 9.5, 9.6, \\ 10.3, 10.4, 10.5, \\ 10.6, 10.7, 10.8, \\ 10.9, 11.1, 11.2, \\ 11.3, 11.4, 11.5, \\ 11.6, 11.7 \end{array}$	
<ul> <li>classify figures in terms of congruence and similarity and apply these relationships;</li> </ul>	10.6, 11.1, 11.2, 12.6		3.4, 3.5, 3.6, 3.7, 4.2, 4.3, 4.4, 4.5, 8.1, 8.6, 10.8	

	II	
• deduce properties of, and relationships	10.1, 10.2, 10.3,	1.1, 1.2, 1.3, 1.4,
between, figures from given assumptions;	10.4, 10.5, 10.6,	1.5, 3.1, 3.2, 3.3,
	11.1, 11.2, 11.7,	3.4, 3.5, 3.6, 3.7,
	12.2, 12.3, 12.4,	3.8, 4.2, 4.3, 4.4,
	12.5, 12.6	4.5, 5.2, 5.3, 5.4,
		5.5, 5.6, 6.1, 6.2,
		6.3, 6.4, 6.5, 6.6,
		8.1, 8.2, 8.3, 8.4,
		8.5, 8.6, 9.2, 9.3,
		9.4, 9.5, 9.6,
		10.3, 10.4, 10.5,
		10.6, 10.7, 10.8,
		10.9, 11.1, 11.2,
		11.3, 11.4, 11.5,
		11.6, 11.7
and so that, in addition, college-intending students	can	
• develop an understanding of an axiomatic		Various
system through investigating and		geometries are
comparing various geometries.		discussed in the
		Cultural
		Connections
		featured
		throughout this
		textbook.

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 8 Geometry from an Algebraic Persp	ective	·		
In grades 9-12, the mathematics curriculum should	d include the study of	of the geometry of	two and three dimen	sions from an
algebraic point of view so that all students can-				
• translate between synthetic and			7.1, 7.2, 7.3, 7.4,	
coordinate representations;			7.5, 7.6	
<ul> <li>deduce properties of figures using transformations and using coordinates;</li> </ul>	10.7, 10.8, 10.9		11.1, 11.2, 11.3, 11.4, 11.5	
<ul> <li>identify congruent and similar figures using transformations;</li> </ul>	10.7, 10.8, 10.9		11.1, 11.2, 11.3, 11.4, 11.5	
<ul> <li>analyze properties of Euclidean transformations and relate translations to vectors;</li> </ul>	10.7, 10.8, 10.9		11.1, 11.2, 11.3, 11.4, 11.5	
and so that, in addition, college-intending students	s can-			
<ul> <li>deduce properties of figures using vectors;</li> </ul>			7.2, 11.2, 11.4, 11.5	
• apply transformations, coordinates, and vectors in problem solving.	10.7, 10.8, 10.9		7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 11.1, 11.2, 11.3, 11.4, 11.5	

NCTM 9-12 Standard	Bridges Lessons	Algebra 1 Lessons	Geometry Lessons	Algebra 2 Lessons
Standard 9 Trigonometry				
In grades 9-12, the mathematics curriculum should	include the study	of trigonometry so	that all students car	1
• apply trigonometry to problem situations involving triangles;	·	13.5	5.4, 5.5, 5.6	12.1, 12.3, 12.4, 12.5, 12.6
<ul> <li>explore periodic real-world phenomena using the sine and cosine functions;</li> </ul>		13.5	5.5, 5.6	12.1, 12.3, 12.4, 12.5, 12.6
and so that, in addition, college-intending students	can			
<ul> <li>understand the connection between trigonometric and circular functions;</li> </ul>				12.3
• use circular functions to model periodic real-world phenomena;				12.3
<ul> <li>apply general graphing techniques to trigonometric functions;</li> </ul>				13.1
<ul> <li>solve trigonometric equations and verify trigonometric identities;</li> </ul>				13.2, 13.3, 13.4, 13.5
<ul> <li>understand the connections between trigonometric functions and polar coordinates, complex numbers, and series.</li> </ul>				not covered

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 10 Statistics		·		
In grades 9-12, the mathematics curriculum should students can	l include the continu	ued study of data and	alysis and statistics	s so that all
• construct and draw inferences from charts, tables, and graphs that summarize data from real-world situations;	2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7	7.1, 7.2, 7.3, 7.4, 7.5, 7.6		Chapter 1 Math Labs
• use curve fitting to predict from data;		7.3 (linear)		1.6 (linear)
• understand and apply measures of central tendency, variability, and correlation;	2.1, 2.2, 2.3, 2.4, 2.7	7.1, 7.2, 7.3, 7.4, 7.5, 7.6		
<ul> <li>understand sampling and recognize its role in statistical claims;</li> </ul>	6.4	6.6		
• design a statistical experiment to study a problem, conduct the experiment, and interpret and communicate the outcomes;	Chapter 2 Math Labs	Chapter 7 Math Labs		
<ul> <li>analyze the effects of data transformations on measures of central tendency and variability;</li> </ul>	2.4, 2.6, 2.7	7.1, 7.5, 7.6		
and so that, in addition, college-intending students	can	· · ·		·
• transform data to aid in data interpretation and prediction;	2.2, 2.3, 2.4, 2.5, 2.6	7.3, 7.5, 7.6		
<ul> <li>test hypotheses using appropriate statistics.</li> </ul>		not covered		not covered

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 11 Probability				·
In grades 9-12, the mathematics curriculum should	d include the contin	ued study of probab	ility so that all stuc	lents can
• use experimental or theoretical	6.5, 6.6, 6.7, 6.8	6.1, 6.2, 6.3, 6.4,	8.7	14.1, 14.2, 14.3,
probability, as appropriate, to represent		6.5		14.4
and solve problems involving				
uncertainty;				
• use simulations to estimate probabilities;	6.8	6.2		
• understand the concept of a random				not covered
variable;				
• create and interpret discrete probability				not covered
distributions;				
• describe, in general terms, the normal		7.6		
curve and use its properties to answer				
questions about sets of data that are				
assumed to be normally distributed;				
and so that, in addition, college-intending students	s can			
• apply the concept of a random variable to				11.5 (#31 )
generate and interpret probability				covers Binomial
distributions including binomial, uniform,				Theorem
normal, and chi square.				

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 12 Discrete Mathematics		·		·
In grades 9-12, the mathematics curriculum should	include topics fro	om discrete mathema	tics so that all stude	ents can
<ul> <li>represent problem situations using</li> </ul>		1.6		3.1, 3.2, 3.3, 3.4,
discrete structures such as finite graphs,				3.5, Chapter 3
matrices, sequences, and recurrence				Math Labs, 11.1,
relations;				11.2, 11.3, 11.4,
				11.5
• represent and analyze finite graphs using		1.6		3.3, 3.4, Chapter
matrices;				3 Math Labs
• develop and analyze algorithms;				3.1, 3.2, 3.3, 3.4,
				3.5, 11.1, 11.2,
				11.3, 11.4, 11.5,
				14.1, 14.2, 14.3,
				14.4
• solve enumeration and finite probability				14.1, 14.2, 14.3,
problems;				14.4
and so that, in addition, college-intending students	can			
• represent and solve problems using linear				2.4, 3.5
programming and difference equations;				
• investigate problem situations that arise				not covered
in connection with computer validation				
and the application of algorithms.				

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 13 Conceptual Underpinnings of the G	Calculus			
In grades 9-12, the mathematics curriculum should	l include the inform	al exploration of ca	lculus concepts from	m both a graphical
and a numerical perspective so that all students can	1			
• determine maximum and minimum		11.2		6.1
points of a graph and interpret the results				
in problem situations;				
• investigate limiting processes by				11.4
examining infinite sequences and series				
and areas under curves;				
and so that, in addition, college-intending students	can			
• understand the conceptual foundations of		rate of change –		rate of change -
limit, the area under a curve, the rate of		4.2		1.4
change, and the slope of a tangent line,				
and their applications in other disciplines;				
• analyze the graphs of polynomial,		square root		4.4, 9.1, 10.1
rational, radical, and transcendental		function – 5.5		
functions.				

NCTM 9-12 Standard	Bridges	Algebra 1	Geometry	Algebra 2
	Lessons	Lessons	Lessons	Lessons
Standard 14 Mathematical Structure				
In grades 9-12, the mathematics curriculum should	d include the study	of mathematical str	ucture so that all stu	idents can
<ul> <li>compare and contrast the real number system and its various subsystems with</li> </ul>	8.5	1.1, 13.3		1.1
regard to their structural characteristics;				
<ul> <li>understand the logic of algebraic procedures;</li> </ul>	4.1, 4.2, 4.3	3.1, 3.3, 10.3	2.6	1.2, 5.1, 8.3
<ul> <li>appreciate that seemingly different mathematical systems may be essentially the same;</li> </ul>	The Cultural Connections features throughout the textbooks provide for students to learn about various mathematical systems and how each compares to our current system.			
and so that, in addition, college-intending students	can	compares to ou	a current system.	
<ul> <li>develop the complex number system and demonstrate facility with its operations;</li> </ul>				5.5
<ul> <li>prove elementary theorems within various mathematical structures, such as groups and fields;</li> </ul>				not covered
• develop an understanding of the nature and purpose of axiomatic systems.	4.1, 4.2	3.1, 3.3	Chapter 2 presents an axiomatic system in terms of geometry	1.2, 5.1, 8.3