

Rice University School Mathematics Project Curriculum—Summer 1999

Mathematical Concepts						Processes
	Number & Operations	Patterns, Functions, & Algebra	Geometry & Spatial Sense	Measurement	Data Analysis & Statistics Probability	
K – 2	<ul style="list-style-type: none"> Numeration Whole number: comparing & operations Place value 	<ul style="list-style-type: none"> Balance & equalities 	<ul style="list-style-type: none"> Shapes & their properties 	<ul style="list-style-type: none"> Time & temperature Customary & non-standard systems Perimeter & area 	<ul style="list-style-type: none"> Chance 	Problem Solving Reasoning & Proof Communicating Connecting Representing
3-4	<ul style="list-style-type: none"> Whole number, fractions 	<ul style="list-style-type: none"> Factors & multiples Patterns 	<ul style="list-style-type: none"> Congruence, similarity Plane figures 	<ul style="list-style-type: none"> Measurement systems Perimeter, area 	<ul style="list-style-type: none"> Simple probability 	
5 – 7	<ul style="list-style-type: none"> Whole number fraction, integer concepts, & operations Ratio & proportion 	<ul style="list-style-type: none"> Variable Pattern in numbers & nature 	<ul style="list-style-type: none"> Polygons Transformations Spatial geometry 	<ul style="list-style-type: none"> Perimeter, area, volume 	<ul style="list-style-type: none"> Central tendency Theoretical & experimental probability 	
8-Algebra I	<ul style="list-style-type: none"> Real number Ratio & proportion 	<ul style="list-style-type: none"> Polynomials Slope Linear & non-linear functions 	<ul style="list-style-type: none"> Area, perimeter, volume Pythagorean Theorem 		<ul style="list-style-type: none"> Informal probability Empirical statistics 	
Geometry Algebra II Pre-Calculus	<ul style="list-style-type: none"> Matrices Sequences & series Limits 	<ul style="list-style-type: none"> Rate of change Algebraic systems Algebraic & geometric transformations 	<ul style="list-style-type: none"> Congruence, Similarity Conics 3-dimensional figures 	<ul style="list-style-type: none"> Calculus: area, length, volume Indirect Measurement 	<ul style="list-style-type: none"> Regression Math modeling Distribution, combinatorics 	