Rice University School Mathematics Project
Curriculum—Summer 2000

Mathematical Concepts						Processes
	Number & Operations	**Patterns, Functions, & Algebra**	**Geometry & Spatial Sense**	**Measurement**	**Data Analysis & Statistics Probability**	Concept Sequencing Problem Solving Reasoning & Proof Communicating Connecting Representing
K – 2	• Whole number concepts & operations • Numeration • Place value	• Balance & equalities	• Shapes & their properties	• Standard & non-standard systems • Perimeter & area • Time & temperature	• Chance	
3, 4	• Whole number concepts & operations • Fraction concepts & operations	• Factors & multiples • Patterns	• Plane figures • Congruence, similarity	• Measurement systems • Perimeter, area	• Simple probability • Interpretive data	
5 – 7	• Fractions, decimals, percents, concepts & operations • Integer concepts & operations	• Variable • Patterns	• Polygons • Transformations • Spatial geometry	• Perimeter, area, volume	• Central tendency • Theoretical & experimental probability	
8, Algebra I	• Ratio & proportion • Integer concepts & operations	• Polynomials • Slope • Linear & non-linear functions	• Logic ← • Nets • Transformations Pythagorean Theorem →	• Area, surface area, perimeter, volume	• Statistics • Theoretical & experimental probability	
Geometry **Algebra II** **Pre-Calculus**	Limits ←	Function development Proportionality → Transformations → Rate of change →	←	Length, area, volume	Regression Modeling ←	