Curriculum Mapping: Integrating Magnet Theme with Ongoing Units
School: John Muir K-12 Magnet School for Global Citizenship

Grade level Pre-Algebra 7th; Date: 4/15/09

Essential questions: How do we become globally aware? How do we draw together as a community to use our collective knowledge to create positive change? (Include infusion of Paideia, technology and our global theme. How does our curriculum look different?)

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
Subject:	Data Analysis	Algebraic Expressions and Integers	Solve equations and Inequalites	Factors , Fractions and Exponents	Ratios, Proportions, and Percents	Graphing linear equations and inequalites	Area, Volume and Right triangles
Process, product, and materials	Students will collect data and then input the data into a spreadsheet using Excel.	Students will use equation editor to create algebraic expressions.	Students will use Winplot to check if their answer to the equation or inequality is correct.	Students will use equation editor to create fractions and exponent problems.	Students will use Excel to find percents and solve proportions.	Draw a picture using 20 lines. 5 vertical, 5 horizontal and 10 non-vertical non-horizontal lines. For each line the students needs to write the equation. Using Winplot they can draw their picture by inputting the correct equations.	Students will use Geometry sketchpad to find the Area and Volume of different shapes.
Paideia			"Spider Legs" Problem			"Drug Doses and Weights" problem	
Technology	Excel	Equation Editor	Windows operating system and Winplot	Equation Editor and Excel	Excel	Windows operating system and Winplot	Geometry Sketchpad