

Curriculum Mapping: Integrating Magnet Theme with Ongoing Units

John Muir K-12 Magnet School for Global Citizenship

Subject: Math

Grade level: 9-12

Teacher: R. Menze

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 Exponential and Logarithmic Functions	UNIT Discovering and Proving Polygon Properties	UNIT Intersession—Hiking in the Natural Environment	UNIT This unit will be shaped to focus on
Resources	Promethean lessons—downloaded from the Promethean website www.prometheanplanet.com	Promethean lessons—downloaded from the Promethean website www.prometheanplanet.com	Text: None	Text:
PAIDEIA	<u>Didactic Lessons</u> Mini-seminar on using logarithms in science, and finance....calculating exponential growth in banking and calculating radioactive decay in past living organisms. .	<u>Class seminar:</u> Seminar on Islamic geometric figure displaying multiple interconnected polygons	<u>School-wide seminar:</u>	<u>Class seminar:</u>
Technology	Graphing Calculators (TI 83) Digital graphing board Promethean Board	Geometers Sketchpad site license—loaded on class sets of computers on rolling cart in classroom	Use of GPS receivers to locate position and route on 10 and a 6 mile hike. Use of Digital cameras to document the field trip and experience	