

U. C. Schools Curriculum Map

Subject: Math

Grade Level: Eighth

Time Period	August	September	October	November and December
Big Ideas		Patterns, Relationships and Function : Patterns and Variability and Change	Geometry and Measurement: Shape and shape relationships	-What skills are needed to succeed on the MEAP? -Geometry and Measurement: Position
Content				-MEAP Review
Benchmarks and Skills		-Identify functions as linear or nonlinear from tables, graphs, or equations and contrast their properties. -Describe relationship between the graph of a line & its equation (meaning of slope as a constant rate of change & y-intercept as fixed value)	-Make and test conjectures about characteristics and properties (e.g., sides, angles, symmetry) of two-dimensional shapes and three-dimensional objects -Draw nets for a variety of prisms, pyramids, cylinders and cones.	-Represent and analyze shapes using coordinate geometry. Compute and interpret slope, midpoint and distance given a set of ordered pairs. -Draw results of translations, reflections, rotations and dilations of objects in the coordinate plane; determine properties that remain fixed.
Assessments		-Extended response	-Extended response	-Extended response

Time Period	January	February	March	April	May
Big Ideas	-MEAP strategies -Geometry and Measurement: Measurement	Data Analysis and Statistics: Collection, Organization and Presentation of Data	Data Analysis and Statistics: Description and Interpretation	Data Analysis and Statistics: Inference and Prediction	Number Sense and Numeration: Concepts and Properties of Numbers
Content					
Benchmarks and Skills	-Determine the appropriate precision unit for a given situation. -Determine surface area & volume for pyramids and analyze their parts -Demonstrate understanding of concept of perimeter, circumference & area (II:3:6)	-Organize data using tables, charts, histograms, box-plots and spreadsheets. -Evaluate different graphical representations of the same data to determine which is most appropriate for identified purpose (III:1:2&3)	-Read, construct and interpret scatterplots and other types of graphs as appropriate. -Compare two or more data sets describing the same characteristic for 2 different populations of subsets of the same population using appropriate statistical measurements.	-Make conjectures about a possible relationship in a scatterplot and draw a line to best fit. -Represent two variable data with a scatterplot on the coordinate plane & describe how data points are distributed. (III:3:4 & 5)	-Use scientific notation to express large numbers and small numbers between 0 and 1. -Explain & use the inverse & identify properties and use inverse relationships in problem solving situations.
Assessments	-Extended response	-Extended response	-Extended response	-Extended response	-Extended response