Map: Bartels, Hoffman, Michelitch - Physical Science Type: Projected Grade Level: 8 School Year: 2007-2008

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	Essential Questions	Content	Skills	Assessments	Standards/PIs
help t why scient why variat work! What scient why what scient why what work! How work! How invest how trend that is deper why syste how units	help to solve problems? Measurement at the context of the	Scientific Method/ Review of	List the steps of the scientific method in order.	Scientific Method Experiment	MST1-K4-2B
		Measurement and Graphing in the context of the scientific		very basic experiement	MST1-K4-2A
	Why do scientists use the scientific method?	method.			MST1-K4-2C
	Why do scientists test one	Mathematic deductive and inductive reasoning are used to reach mathematical conclusions.	Define all of the steps of the scientific method.	Scientific Method Worksheet #1	MST1-K4-2D
	variable (independent) at a time?			order of method	MST1-K5-2A
	What is the sequence of the scientific method?	Critical thinking skills are used in the solution of mathematical problems.	Match the steps of the scientific method with the definition of the step.		MST1-K5-2B
	Why are graphs important?			Review Sheet- Scientific method, Measurement, and Graphing	MST1-K5-2C
	How do scientists graph data?				MST1-K6-2A
	What are the rules to follow when	Scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. The observations made while testing proposed explanations, when analyzed using conventional and invented methods, provide new insights into phenomena.	Discuss why scientists use the scientific method when solving a problem.	Test- Scientific Method Test, Graphing Test, Measurement	MST1-K6-2C
	working in the science laboratory?				MST1-K6-2B
	How do we properly use the triple beam balance, graduated cylinder.			Quiz- Scientific Method, Measurement, and Graphing, Sponge Bob on Independent and Dependent Variable	MST6-K3-3A
	over flow tank, and microscope?		Explain the importance of the scientific method.		MST2-K1-1A
	How is a well designed investigation developed?			Laboratory Experiments- Scientific Method, Mass, Length, Volume, Density	MST2-K1-1C
	How are graphs useful to show				MST2-K1-1D
	trends in data?		Demonstrate the scientific method.	Worksheets- Scientific Method, Mass, Length, Units, Volume,	MST2-K1-1E
	How do you determine the factor that is the independent/			Density	
	dependent variable?		Design charts, tables, graphs that address their research question.	Observation- of Cooperative Assignments	
	Why do scientists use the metric system?			Puzzle- Measurement	
	How do we convert between	Scientific Method Constants	Measure length, mass, volume and density .	Question and answer - Scientific Method, Graphing and Measurement	
	units when using the metric system?				
		Control Group	and density .		
		Observation	Compute mass by difference and when using weighing paper.	scientific method test	
		Inference			
		Independent Variable	Distinguish between different types of measurements and units.	Scientific Method Worksheet	
		Dependent Variable			
		Hypothesis	Round to the nearest tenth when making measurements.	analyzing method	
		Conclusion			