

**Eighth Grade Science  
Curriculum Map  
2006-2007 School Year**

Month	Content	Skills	Assessment	Essential Questions	Standards
Aug/Sept	Scientific Method Metric measurement Lab Safety	Identify Safety Lab Practices Be able to determine metric measurements – including calculating density Identify and utilize the seven steps of the scientific method	Worksheets Tests Directed Reading Lab: Organizing Data Lab: Iced Salt Water Lab: Calculating Density Lab: Diving into Density	How do you utilize the scientific method to find a solution to solve a problem? How do you use a controlled experiment to test a hypothesis?	11A.3a, 3b, 3c, 3d, 3e, 3f, 3g
October	Chemistry: Physical and Chemical changes Chemical reactions Balancing Chemical equations Nuclear Reactions	Identify the characteristics of matter Compare particles that make atoms and elements Describe the different types of chemical bonds Identify the different types of chemical reactions Differentiate between Isotope and elements Be able to balance chemical equations Be able to differentiate between nuclear reactions and chemical reactions	Worksheets Tests Quizzes Lab: Conservation of Matter Lab: Chemical Reactions Lab: Octet Dating	What is the relationships between matter, elements, and atoms?	12C.3a, 3b 11A. 3a-3g