

8th Grade Curriculum Guide
8th Grade Science

Strand: Nature of Science		Standard: NS.1.8.1; NS.1.8.2; NS.1.8.3; NS.1.8.5; NS.1.8.6; NS.1.8.7; NS.1.8.9; NS.1.8.11; LS.2.8.9; LS.3.8.11; ESS.10.8.9		
Days	Topic/Subtopic	Assessment	Frameworks	Resources
6	Chapter 1 The Nature of Science <ul style="list-style-type: none"> • What is Science? • Doing Science • Science and Technology 	Science Journal Performance: Mini Lab Applying Skills Section Review Curriculum Connection Performance	NS.1.8.1 Justify conclusions based on appropriate and unbiased observations NS.1.8.2 Evaluate the merits of <i>empirical evidence</i> based on <i>experimental design</i> : <ul style="list-style-type: none"> • <i>hypothesis</i> • replication • sample size • appropriate use of <i>control</i> • use of standardized <i>independent</i> and <i>dependent variables</i> NS.1.8.3 Formulate a testable problem using <i>experimental design</i> NS.1.8.4 Analyze a set of scientific data using mean, median, mode, and range using <i>SI units</i> NS.1.8.5 Suggest <i>solutions</i> to real world problems by analyzing scientific data in <ul style="list-style-type: none"> • data tables/charts • histograms • circle graphs • <i>scatter plots</i> • <i>stem and leaf plots</i> • line and double line graphs by approximating line of best fit NS.1.8.6 Formulate inferences based on scientific data	Glencoe Text: <ul style="list-style-type: none"> • Fast File: foldables worksheet • Reinforcement pages • Lab worksheets • Cultural Diversity • Science Inquiry Labs • Reading/writing skill activities WebLinks; blue.msscience.com