

8th Grade Curriculum Guide  
8<sup>th</sup> 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"> <li>• What is Science?</li> <li>• Doing Science</li> <li>• Science and Technology</li> </ul>	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"> <li>• <i>hypothesis</i></li> <li>• replication</li> <li>• sample size</li> <li>• appropriate use of <i>control</i></li> <li>• use of standardized <i>independent</i> and <i>dependent variables</i></li> </ul> 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"> <li>• data tables/charts</li> <li>• histograms</li> <li>• circle graphs</li> <li>• <i>scatter plots</i></li> <li>• <i>stem and leaf plots</i></li> <li>• line and double line graphs by approximating line of best fit</li> </ul> NS.1.8.6 Formulate inferences based on scientific data	Glencoe Text: <ul style="list-style-type: none"> <li>• Fast File: foldables worksheet</li> <li>• Reinforcement pages</li> <li>• Lab worksheets</li> <li>• Cultural Diversity</li> <li>• Science Inquiry Labs</li> <li>• Reading/writing skill activities</li> </ul> WebLinks; <a href="http://blue.msscience.com">blue.msscience.com</a>