

**Science – Grade Six  
District 2853**

Month	Content	Performance Standards Addressed	Skills for Student Achievement	Assessment
4-6 Weeks	<ul style="list-style-type: none"> <li>Electricity</li> </ul>	History & Nature of Science B2 Physical Science F1, F2 (6) HNS C1	<ul style="list-style-type: none"> <li>Discuss circuits</li> <li>Develop vocabulary with regards to electricity</li> <li>Know the difference between parallel, series, opposition and circuits</li> <li>Knowledge of how electricity is generated</li> <li>Electrical safety</li> <li>Understand terms of controlled experiments and variables</li> </ul>	<ul style="list-style-type: none"> <li>Teacher assessment</li> <li>Notes</li> <li>Quiz</li> <li>Test</li> <li>Partner work</li> <li>Worksheets</li> </ul>
4 Weeks	<ul style="list-style-type: none"> <li>Variables</li> </ul>	History & Nature of Science A2, B2, B4; A1, A2, B1 6 (HNS) C2 (6) HNS A 3 & 4  A1, A2, B1 (6) HNS C2	<ul style="list-style-type: none"> <li>Understand how to collect data</li> <li>Develop trials and errors</li> <li>Know that variables cease change in experiments</li> <li>Develop their own controlled experiment</li> <li>Construct a purpose question</li> <li>Develop objective</li> <li>Form hypothesis</li> <li>Gather materials</li> <li>Follow procedure</li> <li>Provide results/conclusion</li> <li>Construct a purpose question</li> <li>Develop objective</li> <li>Form hypothesis</li> <li>Gather materials</li> <li>Follow procedure</li> <li>Provide results/conclusion</li> </ul>	<ul style="list-style-type: none"> <li>Partner work</li> <li>Quiz</li> <li>Worksheets</li> <li>Teacher assessment</li> <li>Hands-on Experiment</li> <li>Demonstration</li> <li>Reports</li> <li>Experiments</li> <li>Student presentations</li> </ul>
7 Weeks	<ul style="list-style-type: none"> <li>Cells</li> </ul>	6 (HNS) C1 6 (HNS) C2	<ul style="list-style-type: none"> <li>Use and care of microscope</li> <li>Interpret data from microscopic viewing</li> <li>Differentiate between plant and animal cells</li> <li>Compare and contrast between plant &amp; animal cells</li> <li>Name cell parts</li> <li>View microscopic organisms</li> <li>Name parts of microscope</li> <li>Slide preparation (wet &amp; dry mounts)</li> </ul>	<ul style="list-style-type: none"> <li>Teacher assessment</li> <li>Notes</li> <li>Quiz</li> <li>Test group work</li> <li>Worksheets</li> <li>Lab work</li> <li>Cell model (Play Dough)</li> </ul>
2 Weeks	<ul style="list-style-type: none"> <li>Acids and Bases</li> </ul> PS B2 PS B3	History & Nature of Science B2 Physical Science A1, A2, A3, A4, A5, A6, A7	<ul style="list-style-type: none"> <li>Know the differences between acid/base</li> <li>Knowledge of pH scale</li> <li>Describe characteristics of acid/bases</li> </ul>	<ul style="list-style-type: none"> <li>Teacher assessment</li> <li>Notes</li> <li>Quiz</li> <li>Test group work</li> <li>Worksheet</li> </ul>

		(6) HNS A3 (6) PS B1 (6) HNS A3	<ul style="list-style-type: none"> <li>· Optimum pH for variety of life systems</li> <li>· Develop awareness of periodic table</li> <li>· Understand mixture and solutions</li> <li>· Understand chemical reactions and new substances made from the reactions.</li> </ul>	<ul style="list-style-type: none"> <li>• Lab experiment tests</li> </ul>
3 Weeks	<ul style="list-style-type: none"> <li>• Structure &amp; Matter</li> </ul>	Physical Science A3-7	<ul style="list-style-type: none"> <li>• Knowledge of mass as a constant</li> <li>• Describe states of matter/space between particles</li> <li>• Describe difference between volume, mass and density</li> <li>• Use properties of density, melting point, boiling point and solubility to identify mixture and pure substances</li> <li>• Know that atoms are the smallest unit of an element</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher assessment</li> <li>• Notes</li> <li>• Quiz</li> <li>• Test</li> <li>• Partner work</li> <li>• Worksheets</li> </ul>
2 Weeks	<ul style="list-style-type: none"> <li>• Chemical Reactions</li> </ul>	Physical Science B1-3	<ul style="list-style-type: none"> <li>• Define chemical and physical changes</li> <li>• Observe that substances react chemically with other substances to form new ones</li> <li>• Classify substances as mixtures or pure substances</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher assessment</li> <li>• Lab work</li> <li>• Tests</li> <li>• Quizzes</li> </ul>
2 Weeks	<ul style="list-style-type: none"> <li>• Energy</li> </ul>	Physical Science C. Energy Transformations C1-C7	<ul style="list-style-type: none"> <li>• Know that energy can transform from one form to another</li> <li>• Compare and contrast heat, chemical, mechanical and electrical energy</li> <li>• Recognize that heat is transferred by convection, conduction and radiation</li> <li>• Know that visible light from sun/reflected by objects may be made up of different color</li> <li>• Recognize relationship between light/heat</li> <li>• Describe waves in terms of speed, frequency and wave length</li> <li>• Recognize that vibrations</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher assessment</li> <li>• Notes</li> <li>• Quiz</li> <li>• Test</li> <li>• Partner work</li> <li>• Worksheets</li> </ul>

			move at different speeds in different materials	
4 Weeks	<ul style="list-style-type: none"> <li>• Motion</li> </ul>	Physical Science D1-3	<ul style="list-style-type: none"> <li>• Describe position, speed and acceleration of an object</li> <li>• Measure/graph positions and speed of an object</li> <li>• Recognize unbalanced forces acting on an object change object's speed and/or direction</li> </ul>	<ul style="list-style-type: none"> <li>• Lab work</li> <li>• Tests</li> <li>• Quizzes</li> </ul>
4-6 Weeks	<ul style="list-style-type: none"> <li>• Food/Nutrition Unit (Health)</li> </ul>			

Revised 10-7-05