

## NATURAL SCIENCE (PHYSICAL SCIENCE) - GRADE 8 2017

TOPIC	ASSESSMENT STANDARDS	PORTFOLIO ASSESSMENT TASKS
<b>PHASE 1 (11 January 2017 – 31 March 2017)</b>		
<b>Matter and Materials</b>	Practical Investigation Theory <ul style="list-style-type: none"> <li>• Scientific Method</li> <li>• Analyzing and Recording Data</li> <li>• Evaluation and Conclusions</li> </ul>	☞ <b>Task 1</b> Assignment: Graphs 13 – 17 Feb  ☞ <b>Task 2</b> Practical Investigation: Scientific Method 27 Feb – 03 Mar  ☞ <b>Task 3</b> Controlled Test 22 – 31 March
	The particle Model of Matter <ul style="list-style-type: none"> <li>• Phases of Matter</li> <li>• Change of state</li> </ul>	
<b>PHASE 2 (18 April 2017 – 30 June 2017)</b>		
<b>Matter and Materials</b>	The Particle Model of Matter <ul style="list-style-type: none"> <li>• Density, mass and volume</li> <li>• Density and states of matter</li> <li>• Density of different materials</li> <li>• Expansion and contraction of materials</li> <li>• Pressure</li> </ul>	☞ <b>Task 4</b> Assignment: Density 22 – 26 May  ☞ <b>Task 5</b> June Exams 19 – 30 June
	The Periodic Table and Atoms <ul style="list-style-type: none"> <li>• Structure of an Atom</li> <li>• Elements and Compounds</li> <li>• Metals and Non – metals</li> <li>• Chemical bonds</li> <li>• Chemical reactions</li> </ul>	
<b>PHASE 3 (24 July 2017 – 10 November 2017)</b>		
<b>Energy and Change</b>	Static electricity <ul style="list-style-type: none"> <li>• Friction</li> <li>• Van Der Graaf Generator and Gold Leaf Electroscope</li> <li>• Lightning</li> </ul>	☞ <b>Task 6</b> Construction of an Atom 4 – 8 September  ☞ <b>Task 7</b> Controlled Test 11 – 15 Sept  ☞ <b>Task 8</b> October Exam 30 Oct – 10 Nov
	Energy transfer in electrical systems <ul style="list-style-type: none"> <li>• Circuits and current electricity</li> <li>• Components of a circuit</li> <li>• Effects of an electric current</li> <li>• Series and parallel circuits</li> </ul>	