

PHASE LEARNING PROGRAMME

NATURAL SCIENCES GRADE 7

GRADE 7		MODULE 1
LEARNING OUTCOMES	ASSESSMENT STANDARDS	
<p>LO 1 SCIENTIFIC INVESTIGATIONS The learner will be able to act confidently on curiosity about natural phenomena, and to investigate relationships and solve problems in scientific, technological and environmental contexts.</p>	1.1	plans investigations;
	1.2	conducts investigations and collects data; and
	1.3	evaluates data and communicates findings.
<p>LO 2 CONSTRUCTING SCIENCE KNOWLEDGE The learner will know and be able to interpret and apply scientific, technological and environmental knowledge</p>	2.1	recalls meaningful information (at least definitions and complex facts);
	2.2	categorises information (can compare the properties of categories of organisms);
	2.3	interprets information; and
	2.4	applies knowledge in a variation of a known situation.
<p>LO 3 SCIENCE, SOCIETY AND THE ENVIRONMENT The learner will be able to demonstrate an understanding of the interrelationships between science and technology, society and the environment.</p>	3.2	understands sustainable use of the earth's resources.

GRADE 7		MODULE 2
LEARNING OUTCOMES	ASSESSMENT STANDARDS	
<p>LO 1 SCIENTIFIC INVESTIGATIONS The learner will be able to act confidently on curiosity about natural phenomena, and to investigate relationships and solve problems in scientific, technological and environmental contexts.</p>	1.2	conducts investigations and collects data: organises and uses apparatus/equipment or sources to gain and record information:
	1.2.1	tests two or more items and compares results;
	1.2.2	uses a specific procedure for observations;
	1.3	evaluates data and communicates findings: generalises in terms of relevant aspects and describes how the data support the generalisation:
	1.3.1	points out evidence in support of findings.
<p>LO 2 CONSTRUCTING SCIENCE KNOWLEDGE The learner will know and be able to interpret and apply scientific, technological and environmental knowledge</p>	2.1	recalls meaningful information: the minimum requirement is an ability to recall definitions and complex facts:
	2.1.3	explains how magnetic forces affect different materials;

	<p>2.3 interprets information by identifying key ideas in text, finding patterns in recorded data, and making inferences from information in various forms (e.g. pictures, diagrams, text);</p> <p>2.4 application of knowledge: applies knowledge appropriately by connecting the learnt concept to a variation of the known situation:</p> <p>2.4.1 identifies the forms of energy that are transferred.</p>
<p>LO 3 SCIENCE, SOCIETY AND THE ENVIRONMENT The learner will be able to demonstrate an understanding of the interrelationships between science and technology, society and the environment.</p>	<p>3.1 understands science as a human endeavour: compares different interpretations of events;</p> <p>3.2 understands sustainable use of the earth's resources: analyses information related to renewable and non-renewable sources:</p> <p>3.2.3 prepares different means by which cooking can be achieved; uses different kinds of fuel and determines the cost of each fuel.</p>

GRADE 7		MODULE 3	
LEARNING OUTCOMES		ASSESSMENT STANDARDS	
<p>LO 1 SCIENTIFIC INVESTIGATIONS The learner will be able to act confidently on curiosity about natural phenomena, and to investigate relationships and solve problems in scientific, technological and environmental contexts.</p>		<p>1.1 plans investigations: plans simple tests and comparisons and considers how to conduct these properly;</p> <p>1.2 conducts investigations and collects data: organises and uses apparatus/equipment or sources to gain and record information</p> <p>1.3 evaluates data and communicates findings: generalises in terms of relevant aspects and describes how the data support the generalisation:</p>	
<p>LO 2 CONSTRUCTING SCIENCE KNOWLEDGE The learner will know and be able to interpret and apply scientific, technological and environmental knowledge</p>		<p>2.1 recalls meaningful information: the minimum requirement is an ability to recall definitions and complex facts:</p> <p>2.2 categorises information:</p> <p>2.3 interprets information by identifying key ideas in text, finding patterns in recorded data, and making inferences from information in various forms (e.g. pictures, diagrams, text);</p> <p>2.4 application of knowledge: applies knowledge appropriately by connecting the learnt concept to a variation of the known situation:</p>	
<p>LO 3 SCIENCE, SOCIETY AND THE ENVIRONMENT The learner will be able to demonstrate an understanding of the interrelationships between science and technology, society and the environment.</p>		<p>3.2 understands sustainable use of the earth's resources: analyses information related to renewable and non-renewable sources:</p>	

GRADE 7		MODULE 4	
LEARNING OUTCOMES		ASSESSMENT STANDARDS	
LO 1			
SCIENTIFIC INVESTIGATIONS			
<p>The learner will be able to act confidently on curiosity about natural phenomena, and to investigate relationships and solve problems in scientific, technological and environmental contexts.</p>		<p>1.1 plans investigations: plans simple tests and comparisons, and considers how to make them fair;</p> <p>1.2 conducts investigations and collects data: organises and uses equipment or source to gather and record information;</p> <p>1.3 evaluates data and communicates findings: generalises in terms of a relevant aspect and describes how the data supports the generalisation; and</p> <p>1.3.1 offers a strong example of evidence that supports the finding.</p>	
LO 2			
CONSTRUCTING SCIENCE KNOWLEDGE			
<p>The learner will know and be able to interpret and apply scientific, technological and environmental knowledge.</p>		<p>2.1 categorises information: compares features of different categories of objects, organisms and events;</p> <p>2.3 interprets information: interprets information by identifying key ideas in text, finding patterns in recorded data, and making inferences from information in various forms (e.g. pictures, diagrams, text);</p> <p>2.4 applies knowledge: applies conceptual knowledge by linking a taught concept to a variation of a familiar situation.</p>	
LO 3			
SCIENCE, SOCIETY AND THE ENVIRONMENT			
<p>The learner will be able to demonstrate an understanding of the interrelationships between science and technology, society and the environment.</p>		<p>3.1 understands science as a human endeavour: compares differing interpretations of events.</p>	