NATIONAL TEACHING COUNCIL

SENIOR HIGH SCHOOL INTEGRATED SCIENCE

CONTENT DEVELOPMENT

CONTENT	COMPETENCE	DESCRIPTIVE STATEMENTS				
AREA						
Nature of	Understand the nature of	 Explain the historical development of science Recognise the various branches of science 				
science	science and its application					
		 Apply scientific methods to solve 				
		everyday problems				
Life Science	Demonstrate knowledge of • Differentiate between living and no					
	the characteristics of living	things				
	things	• Describe the structure and function of plant and animal cells				
		• Describe the various organ systems in the				
		human body and explain their functions				
		• Describe plant structure and explain the				
		functions				
		• Describe the modes of transmission.				
		symptoms and modes of control of				
		common diseases				
Physical	i. Understand the	• Explain the diversity of matter and their				
Sciences	properties and	interactions				
	characteristics of matter	• Describe acid, base and salt, and their				
	i. Demonstrate knowledge	reactions				
	of acid-base chemistry	• Measure physical quantities and				
	ii. Demonstrate ability to	interconvert physical units				
	measure various	• Describe the various types and sources of				
	physical quantities	energy and how they can be transformed				
	v. Understand the sources and transformation of	from one form to another				
		• Explain Newton's three laws of motion in a				
	energy	variety of situations				
	v. Understand force,	• Analyse motion in terms of concepts of				
	motion and pressure,	displacement, velocity and acceleration				
	and their applications	• Explain pressure, its effects and practical				
	electronics	applications				
		• Identify the various components of an				
		electronic circuit				
Agricultural	Understand cultural • Apply key agricultural concepts in the					
Science	practices in agriculture	production of crops and farm animals				

SUBJECT OUTCOMES		DEPTH OF				
		KNOWLEDGE				
CONTENT AREAS		L1	L2	L3	L4	Total
Nature of Science	Branches of science	1	1			5
	Scientific methods		1	1	1	
Life Science	Living and non-living things	1	1	1	1	35
	Structure and function of plant and animal cells	1	3	3	1	
	Organ systems in the human body	1	3	3	3	
	Plant physiology	1	2	2	2	
	Transmission, symptoms and control of common diseases		1	3	2	
Physical Sciences	Properties and characteristics of matter	1	1	1	1	31
	Acids, bases and salts	1	1	2	1	
	Measurement of physical quantities	1	1	1	1	
	Types, sources and transformation of energy	1	1	3	1	
	Laws of motion, displacement, velocity and acceleration	1		2	2	
	Pressure, its effects and application	1	2	1	1	
	Electronic circuit		1		1	
Agricultu ral	Production of farm animals	1	1	2	1	10
Science	Production of crops		1	2	2	
Environm ental	Environmental cycles	1		1	1	19
Science	Air mass movement		1		1	
	Interactions in the ecosystem	1	1		1	
	Effects of human activities on air, water and soil quality	1	1	1	3	
	Emerging environmental issues such as climate change, plastic pollution, and electronic waste, among others		1	1	3	
Total		15	25	30	30	100

DEVELOPING THE TEST BLUEPRINT (SHS INTEGRATED SCIENCE)