

YEAR TWO INTEGRATED SCIENCE

HILARY SCHEME OF WORK (Based on CSEC Syllabus)

PRE_MIDTERM: Section B – Unit 4: Transport Systems/Unit 5: Respiration and Air Pollution

Transport Systems & Immunity in Animals/ Unit 4: Objectives 1 to 11

Respiration and Air Pollution/ Unit 5: Objectives 1 to 7

POST_MIDTERM: Section B – Unit 6: Excretion/Unit 7: Sense Organs and Coordination

Excretion/ Unit 6: Objectives 1 to 3

Sense Organs and Coordination/ Unit 7: Objectives 1 to 9

Integrated Science LEVEL TWO Hilary Scheme of work- 9 Teaching Weeks

WEEK	TOPIC	SUBTOPIC	OBJECTIVES
1	Transport Systems and Movement	Transport Systems	<u>4.1 Describe the need for transport systems within a living organism</u> <u>4.2 Relate the structures of plant transport systems to their functions</u> <u>HOMEWORK</u>
2	Transport Systems and Movement	Immunity and Disease	<u>4.2 Relate the structures of human cardiovascular system to its functions</u> <u>4.3 Identify the Blood groups</u> <u>4.4 Explain possible causes of cardiovascular disease</u> <u>4.5 Explain how the principles of immunization are used in the control of communicable diseases</u> 4.6 Describe the physiological, social and economic effects of drug use; <u>ASSIGNMENT</u>
3	Transport Systems and Movement	The Human Skeleton and movement	<u>4.7 Describe the physiological effects of exercise</u> <u>4.8 Identify the major bones of the human skeleton</u> <u>4.9 Relate the structure of the skeleton to its functions</u> <u>4.10 Identify different joints in the human body</u> <u>4.11 Explain how the skeletal muscles function in the movement of the limb</u> <u>HOMEWORK</u>
4,5	Respiration and Air pollution	Respiration and Gaseous Exchange	<u>5.1 Explain the mechanism of breathing</u> <u>5.2 Describe the process of gaseous exchange</u> <u>5.3 Describe the importance of respiration to organisms</u> <u>5.4 Distinguish between aerobic and anaerobic respiration</u>

			<u>ASSIGNMENT</u>
6	Respiration and Air pollution	Air pollution	<u>5.5 Identify the causes of air pollution</u> <u>5.6 Describe problems that are caused by air pollution</u> <u>5.7 Explain the effects of smoking on the respiratory system</u> <u>HOMEWORK</u>
7,8	Excretion	Excretion and Egestion	6.1 Distinguish between excretion and egestion 6.2 Explain the mechanism of excretion by the lungs, skin and kidneys in humans 6.3 Identify the waste products of flowering plants and their methods of excretion <u>ASSIGNMENT</u>
9	Sense Organs and Coordination	Sense Organs and the Human Eye	7.1 Describe the sense organs and their functions 7.2 Relate the structures of the mammalian eye to their functions 7.3 Distinguish between natural and artificial lighting 7.4 Distinguish among transparent, translucent and opaque materials 7.5 Describe how to separate white light into its component colours 7.6 Explain sight defects and their corrections <u>HOMEWORK</u>
10	Sense Organs and Coordination		7.7 Relate the structures of the mammalian ear to their functions; 7.8 Describe the structures and functions of the nervous system; 7.9 Describe the functions of the endocrine system <u>ASSIGNMENT</u>

11	EXAM REVIEW	EXAM REVIEW	<ul style="list-style-type: none">• How to answer multiple choice and long-answer question• How to identify key words in a question• Studying tips
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ITEM	NUMBER OF SUBMISSIONS	OVERALL WEIGHT FOR THE TERM
Homework	4	30
Assignments	3	30
End of term Paper 1 (Multiple Choice)	1	10
End of term Paper 2 (Long Answer)	1	30